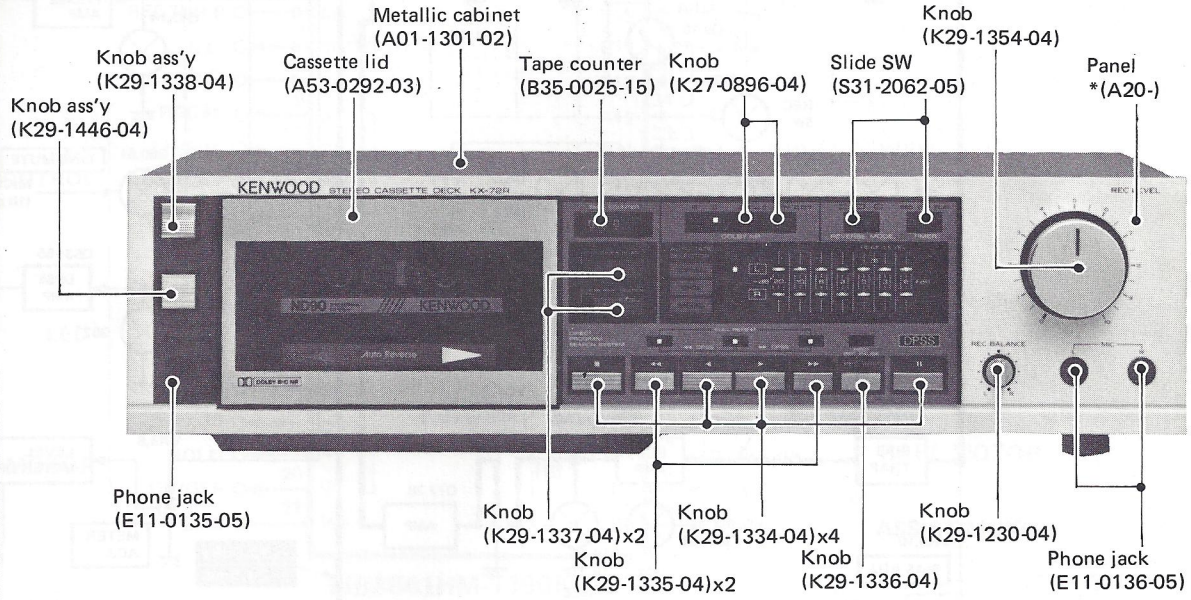
SERVICE MANUAL

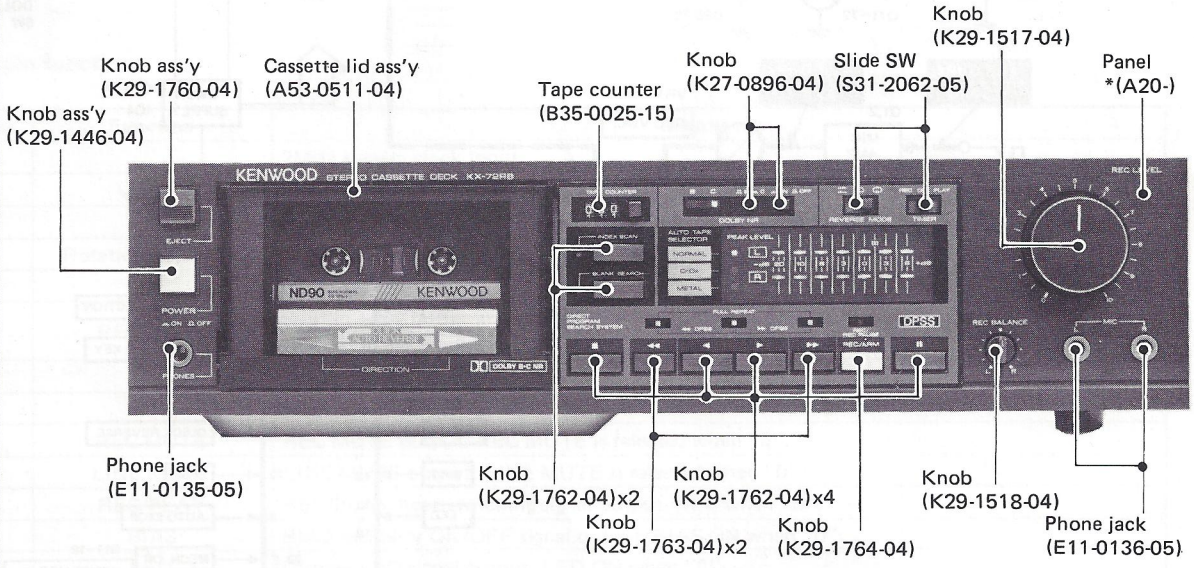
KENWOOD

KX-72R
KX-72RB

STEREO CASSETTE DECK



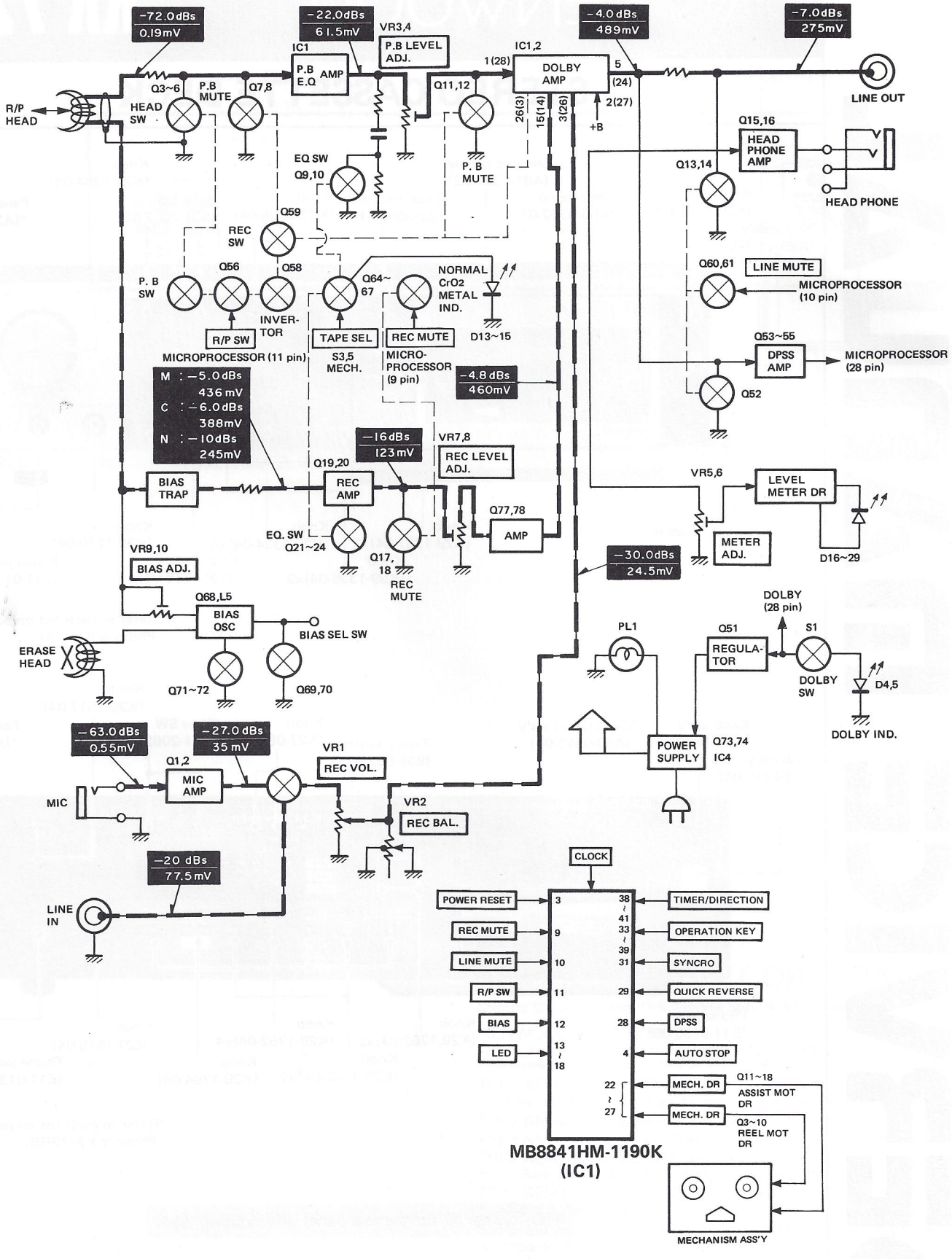
*Refer to parts list on page 18.
Photo is KX-72R.



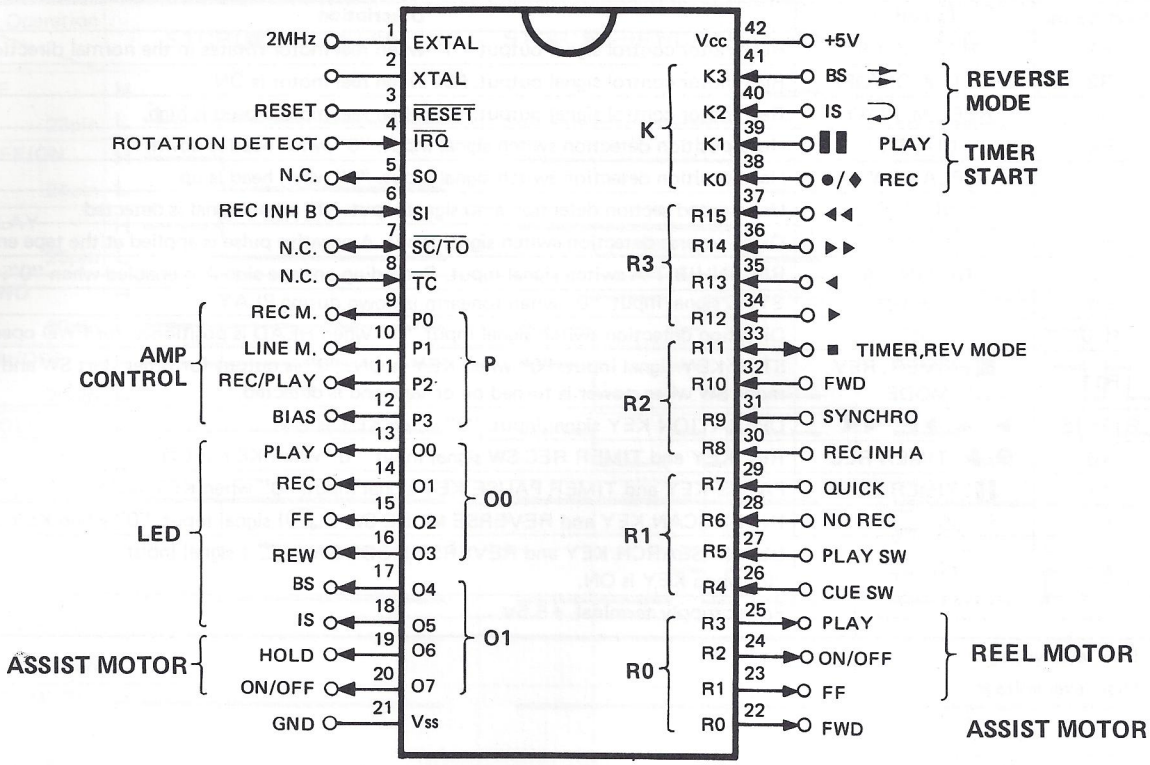
*Refer to parts list on page 28.
Photo is KX-72RB.

Refer to page 32 for the rear panel side external view.

BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION



MB8841HM-1190K (IC1)

2. Microprocessor pin functions

Pin No.	Port Name	Function	Description
1	EXTAL		2MHz system clock input.
2	XTAL		The same as pin 1. Connected to an external circuit for the built-in clock generator.
3	$\overline{\text{RESET}}$		MPU reset input. MPU is initialized when the level applied to this port is "0".
4	$\overline{\text{IRQ}}$	Rotation detection	External interrupt input. The pulse signal from the reel motor is applied.
5	SO		Not connected.
6	SI	REC INH B	Built-in serial buffer input. REC INHIBIT B switch signal is input. Recording on tape side B is enabled when signal level is "0".
7	$\overline{\text{SC}}$/TO		Not connected.
8	$\overline{\text{TC}}$		Not connected.
9	P0	REC MUTE	REC MUTE output. REC MUTE is released when "0".
10	P1	LINE MUTE	LINE MUTE output. LINE MUTE is released when "0".
11	P2	REC/PLAY	REC/PLAY head switching signal output. REC when "0".
12	P3	BIAS	BIAS oscillator ON/OFF signal output. BIAS ON when "0".
13~18	O0~O5	LED	Display LED signal output. LED ON when "0".
19	O6	ASST. M. HOLD	Assist motor control signal output. "0" when assist motor starts.
20	O7	ASST. M. ON/OFF	Assist motor control signal output. "0" when assist motor is ON.
21	Vss	GND	Ground terminal
22	R0	ASST. M. FWD	Assist motor control signal output. "1" when assist motor rotate in the normal direction (FWD).

CIRCUIT DESCRIPTION

Pin No.	Port Name	Function	Description
23	R1	REEL M. FF	Reel motor control signal output. "1" when reel motor rotates in the normal direction (FF).
24	R2	REEL M. ON/OFF	Reel motor control signal output. "0" when reel motor is ON.
25	R3	REEL M. PLAY	Reel motor control signal output. "0" when reel motor speed is high.
26	R4	CUE SW	Head position detection switch signal input. "0" when head is down.
27	R5	PLAY SW	Head position detection switch signal input. "0" when head is up.
28	R6	NO REC	Unrecorded section detection amp signal input. "1" when signal is detected.
29	R7	QUICK	Quick reverse detection switch signal input. A negative pulse is applied at the tape end.
30	R8	REC INH A	REC INHIBIT A switch signal input. Recording on tape side A is enabled when "0".
31	R9	SYNCHRO	SYNC signal input. "0" when tonearm is down during PLAY.
32	R10	FWD	Direction detection switch signal input. "1" when HEAD is positioned for FWD operation.
33	R11	■, TIMER, REV, MODE	STOP KEY signal input. "0" when KEY is ON. "0" is output for timer start SW and reverse mode SW when power is turned on or tape end is detected.
34~37	R12~15	▶, ◀, ▶▶, ◀◀	OPERATION KEY signal input. "0" when KEY is ON.
38	K0	●/◆, TIMER REC	REC KEY and TIMER REC SW signal input. "0" when KEY is ON.
39	K1	❚❚, TIMER PLAY	PAUSE KEY and TIMER PAUSE KEY signal input. "0" when KEY is ON.
40	K2	IS, ⟲	INDEX SCAN KEY and REVERSE MODE SW (⟲) signal input. "0" when KEY is ON.
41	K3	BS, ⇄	BLANK SEARCH KEY and REVERSE MODE SW (⇄) signal input. "0" when KEY is ON.
42	Vcc		Power supply terminal. +5.5V.

"0" (level) : Low level voltage

"1" (level) : High level voltage

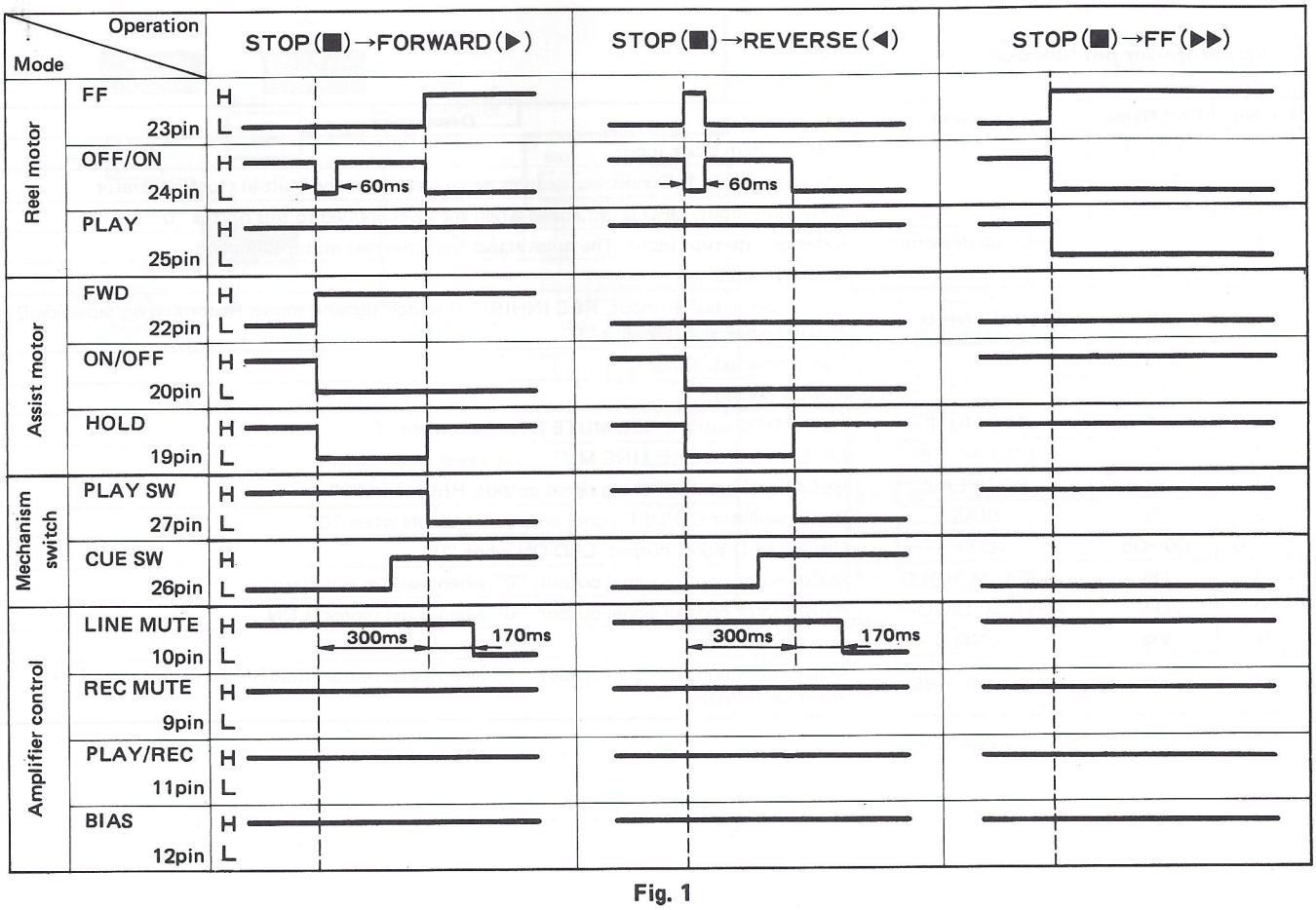


Fig. 1

CIRCUIT DESCRIPTION

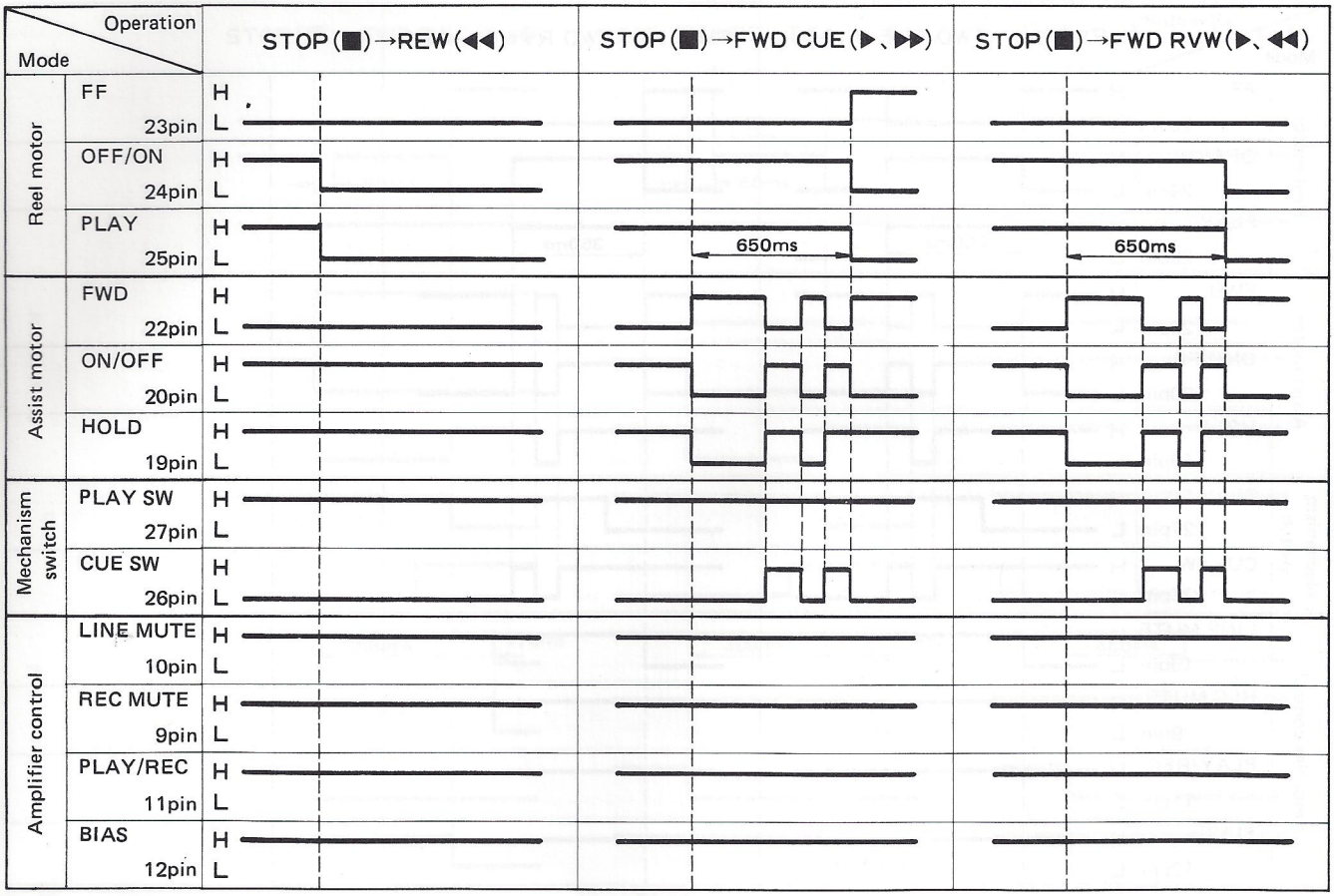


Fig. 2

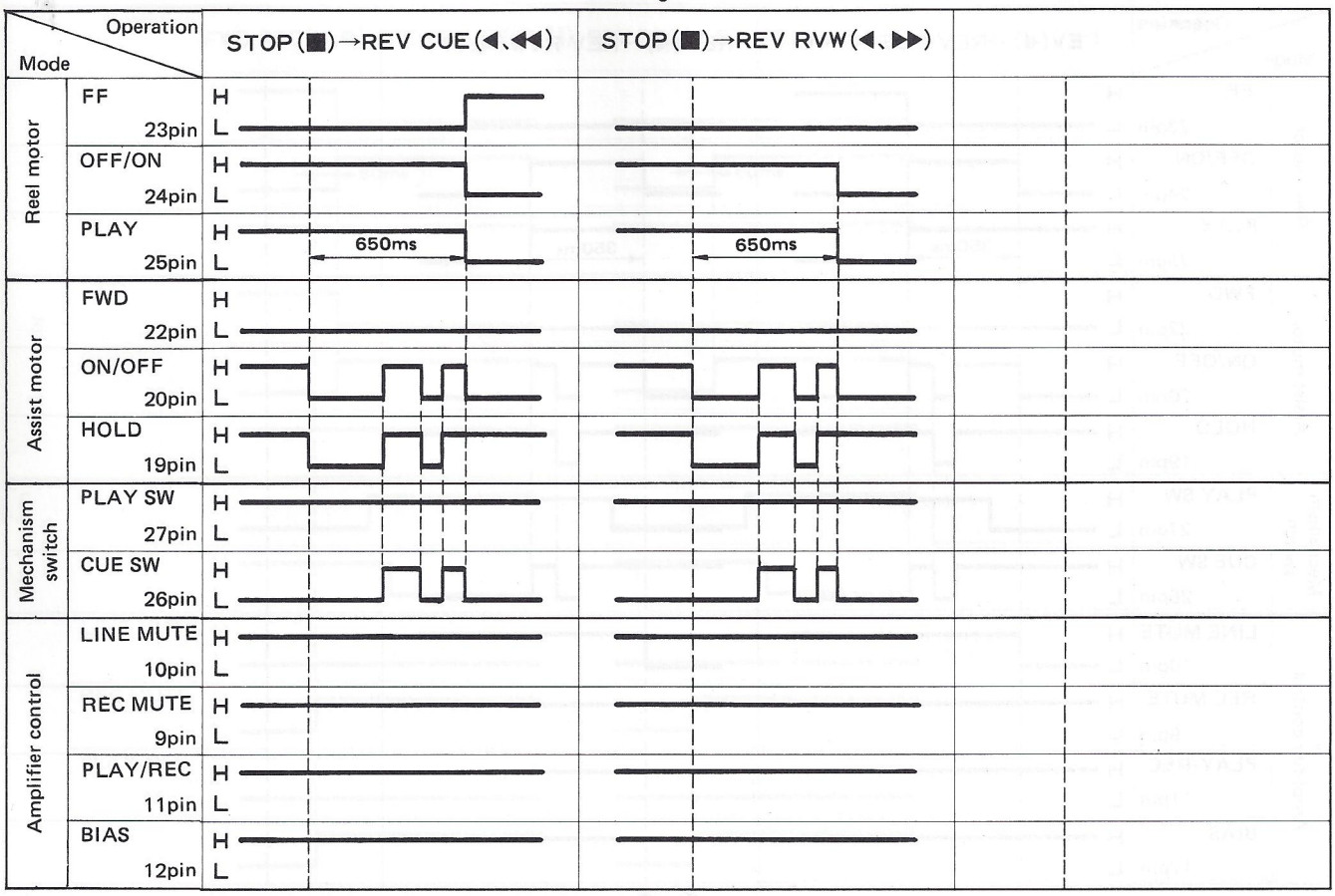


Fig. 3

CIRCUIT DESCRIPTION

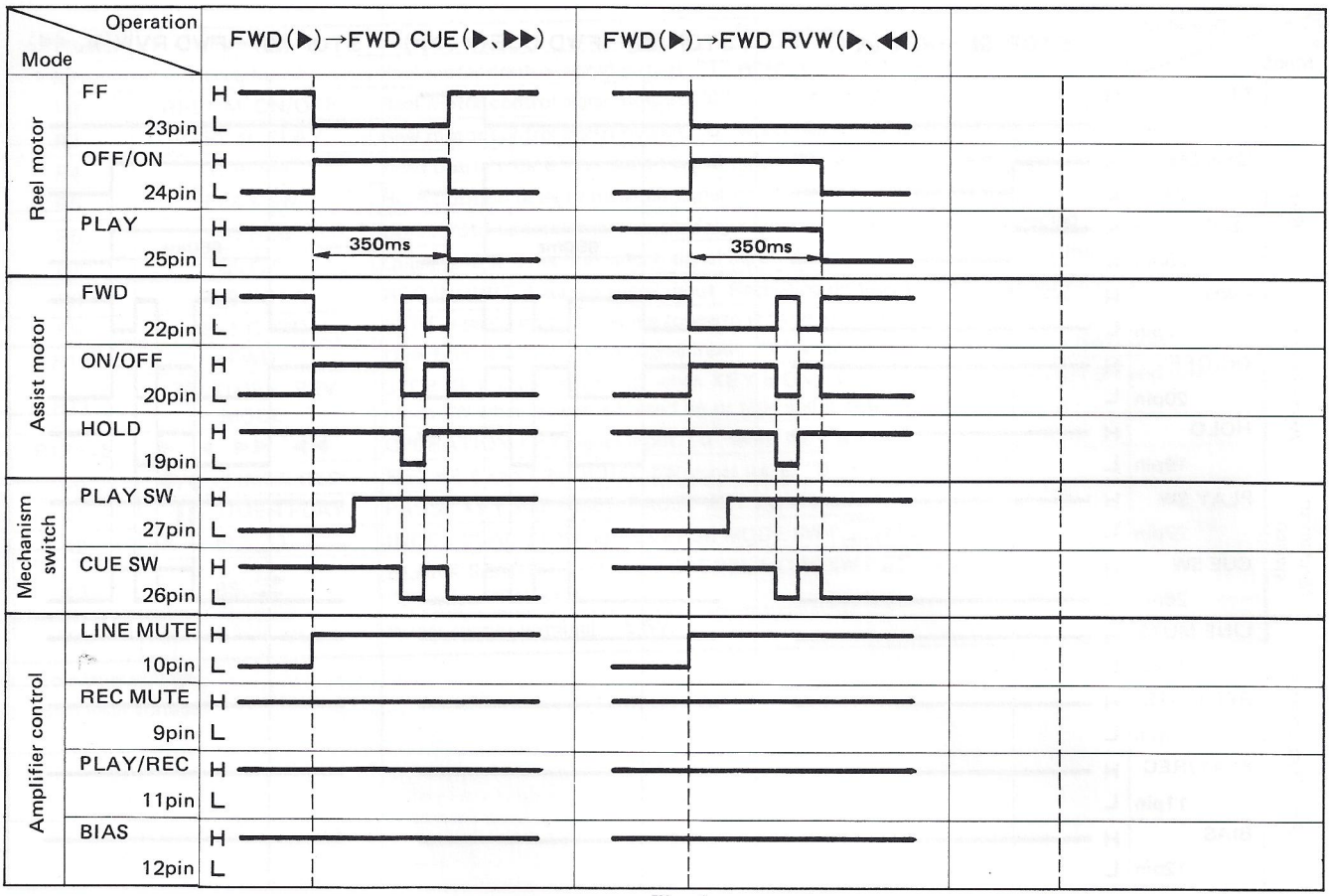


Fig. 4

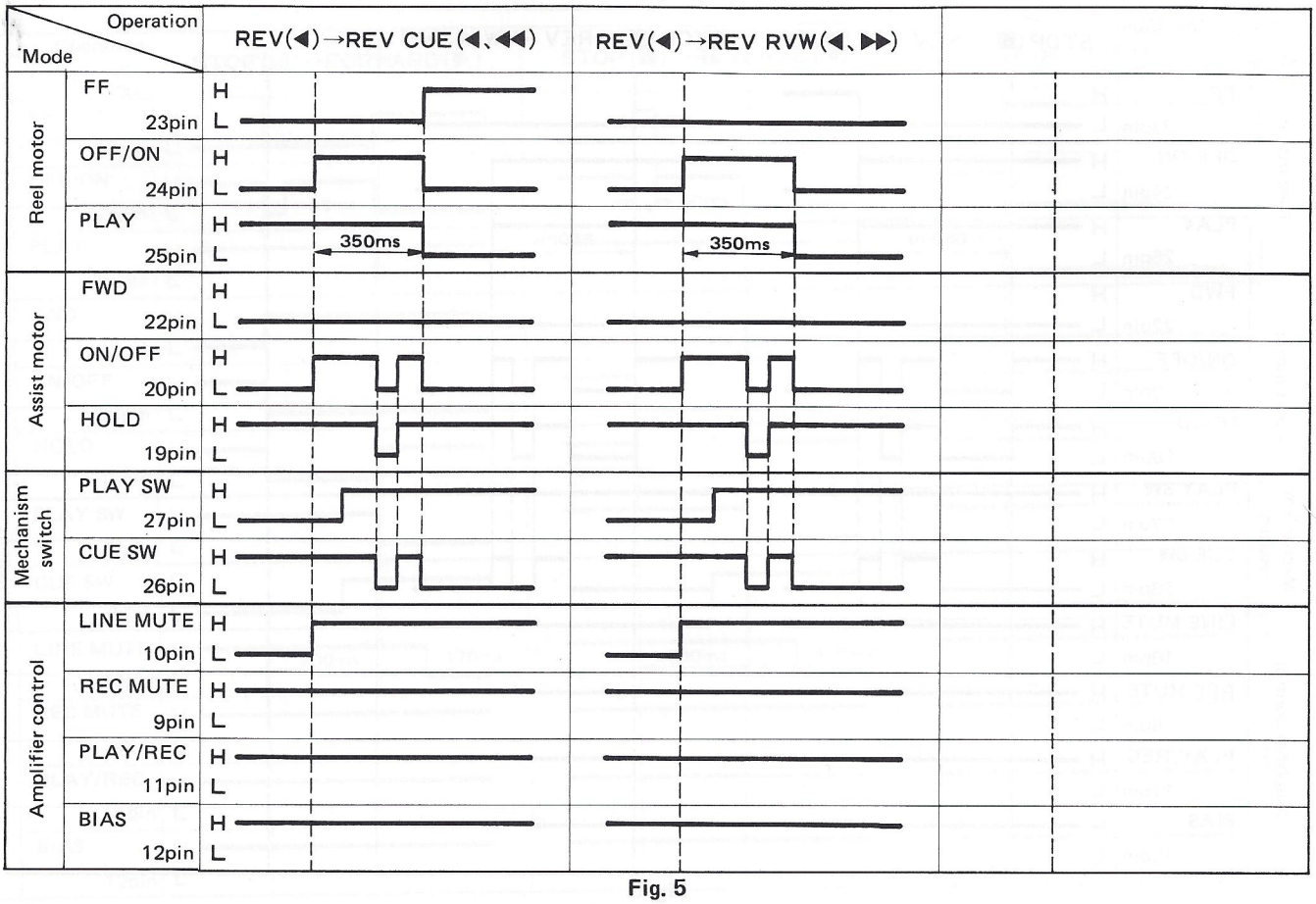


Fig. 5

CIRCUIT DESCRIPTION

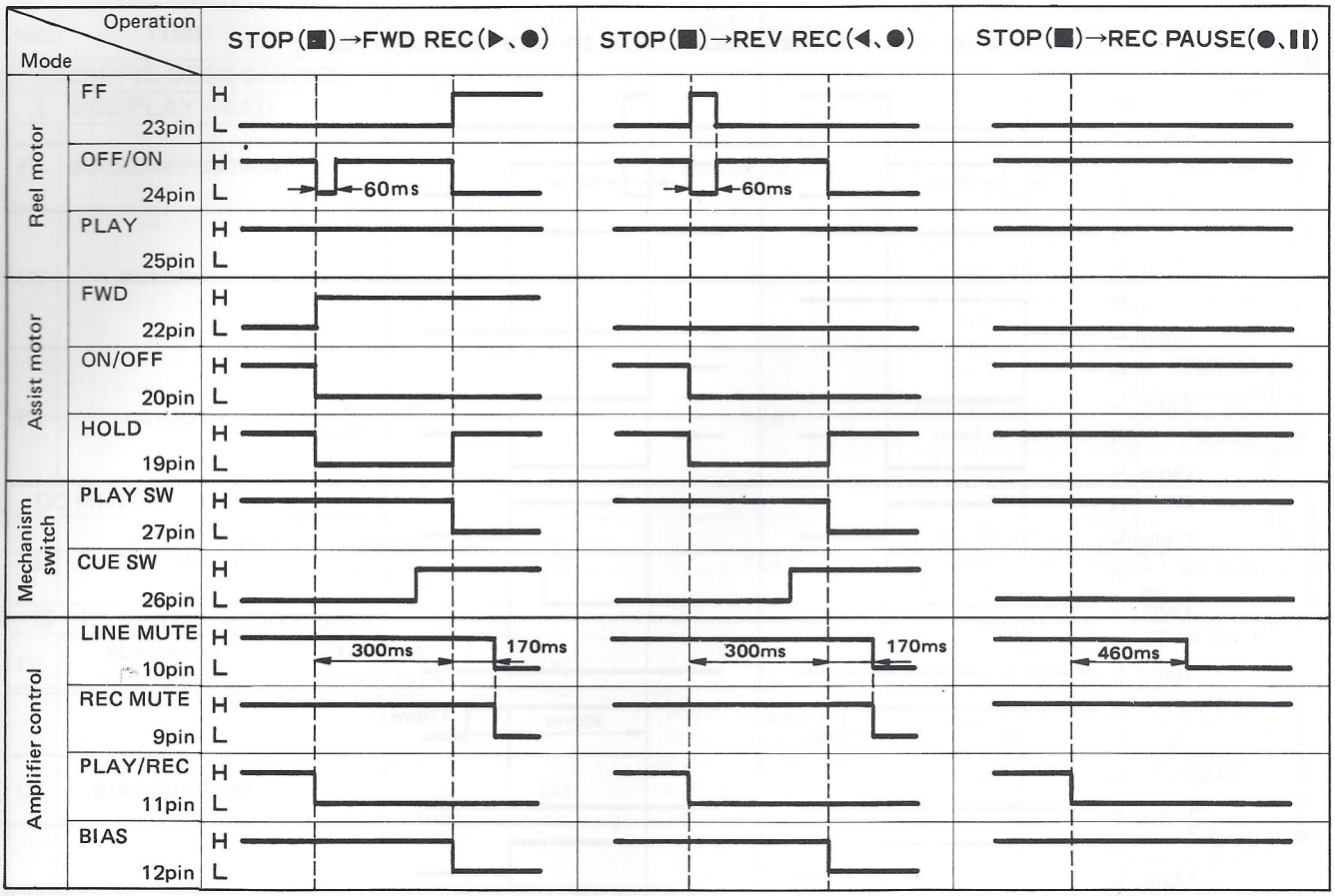


Fig. 6

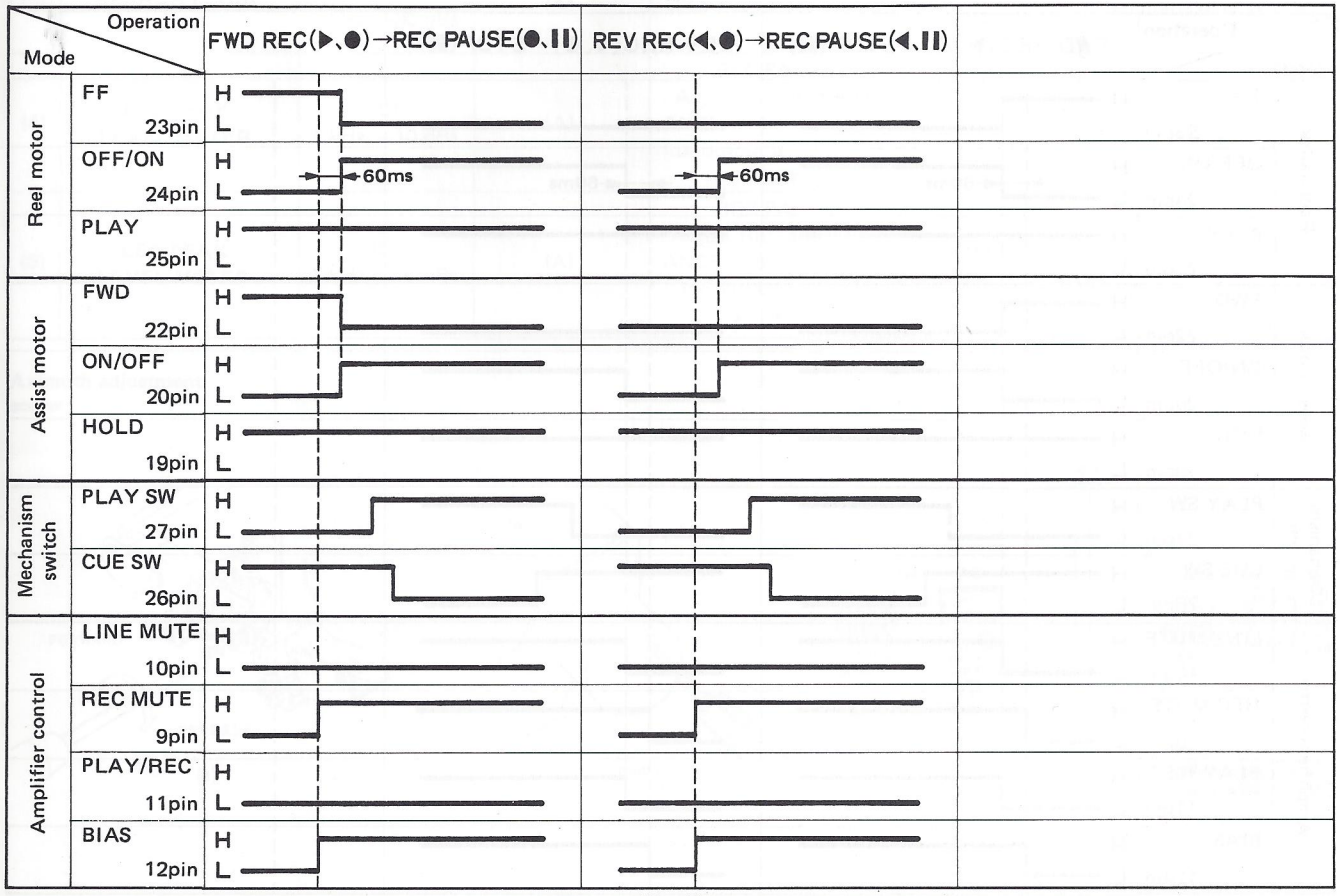


Fig. 7

CIRCUIT DESCRIPTION

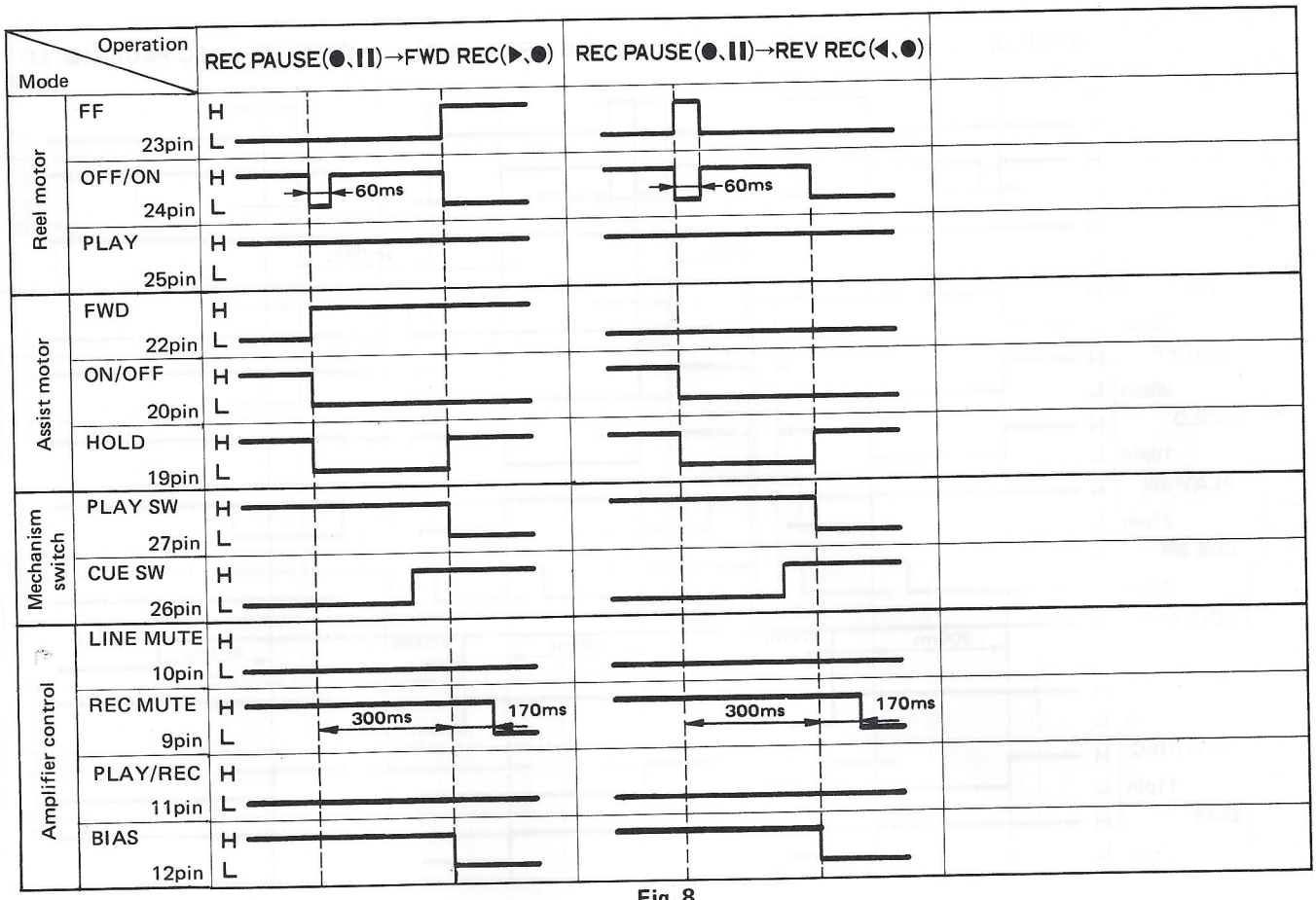


Fig. 8

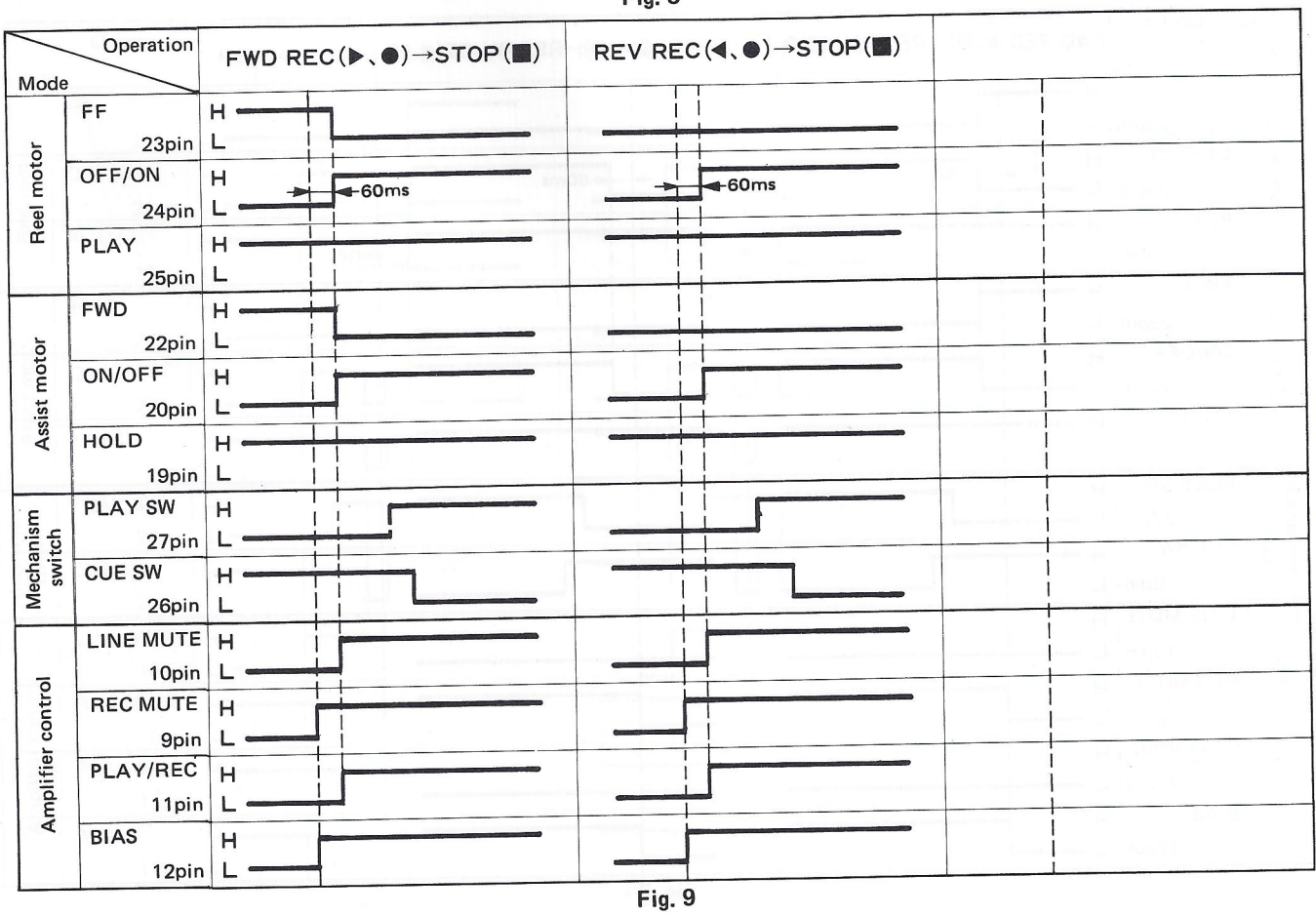
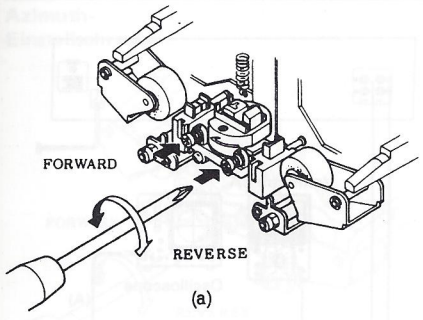


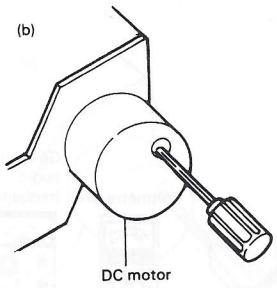
Fig. 9

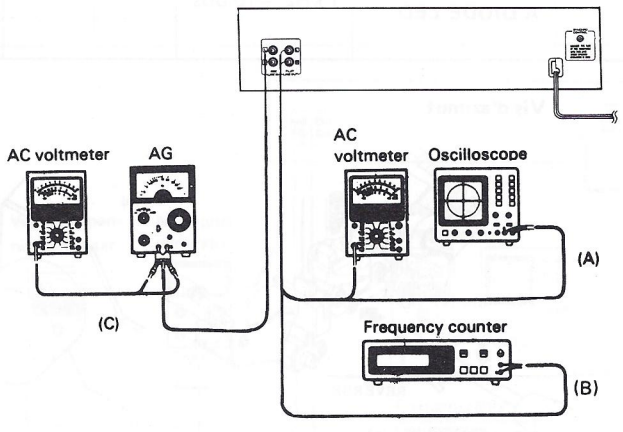
ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE : NORMAL, DOLBY : OFF, INPUT : LINE					
I	**REC/PLAY HEAD**						
[1]	**DEMAGNETIZATION**	–	–	POWER : OFF Remove the cassette door	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	**CLEANING**	–	–	PLAY	REC/PLAY head erase head, capstan, pinch roller	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	**AZIMUTH**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Azimuth adjustment screw	Adjust the azimuth adjustment screw so that the output voltage is maximized in both forward and reverse direction.	(a)
DC MOTOR							
(i)	**TAPE SPEED**	MTT-111 MTT-111D	(B)	PLAY	Trimming potentiometer in the DC motor	Adjust the tape speed so that a 3 kHz signal is produced at the center of the tape.	(b)
II	**PC BOARD (X28-1580-12)**						
(1)	**PLAYBACK LEVEL**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	VR3 (L) VR4 (R)	Output level : –9 dBs	
(2)	**BIAS CURRENT**	(C) 1 kHz, –30 dBs 10 kHz, –30 dBs	(A)	Adjust REC and BALANCE so that the REC monitor output becomes –29 dBs at 1 kHz, then record and reproduce signal of 1 kHz and 10 kHz in alternation.	VR9 (L) VR10 (R)	Record 1 kHz and 10 kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	
(3)	**RECORD LEVEL**	(C) 1 kHz, –30 dBs	(A)	Record and reproduce a 1 kHz signal under the conditions set in (2).	VR7 (L) VR8 (R)	Adjust the variable resistors so that a playback level of –29 dBs is obtained.	
(4)	**LED PEAK LEVEL METER**	(C) 1 kHz, –10 dBs	(A)	REC PAUSE Adjust REC and BALANCE so that the monitor output is –9 dBs at 1 kHz.	–	–	
(5)	**LED PEAK LEVEL METER**	(C) 1 kHz, –10 dBs	(A)	REC PAUSE Adjust REC and BALANCE so that the monitor output is –9 dBs at 1 kHz.	VR5 (L) VR6 (R)	0dB LED segment is completely lit.	

Azimuth adjustment screw

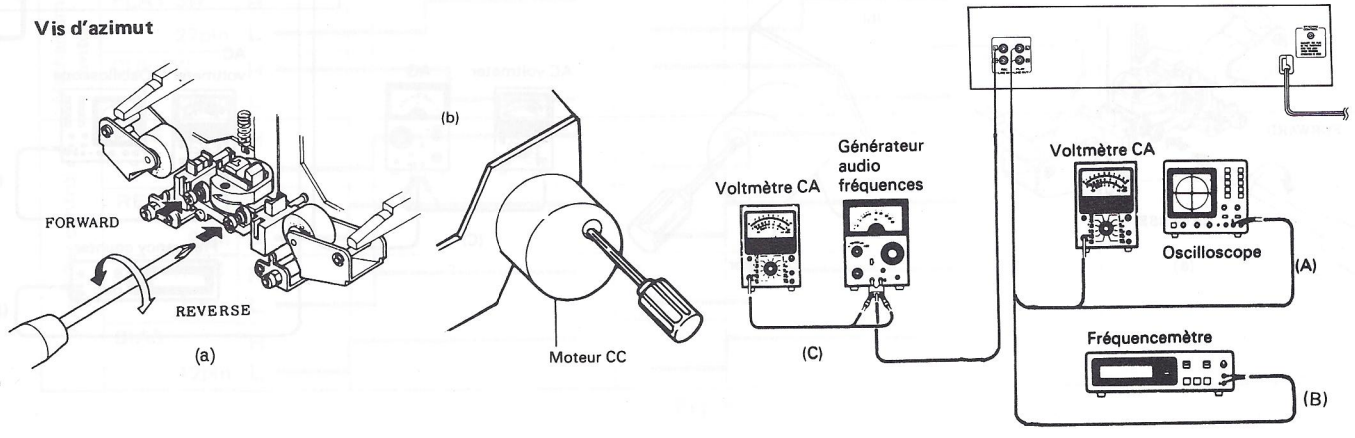






REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE	TYPE DE BANDE : NORMAL, DOLBY : OFF, ENTREE : LINE						
I	**TETE D'ENREGISTREMENT/LECTURE**						
[1]	**DEMAGNETISATION**	–	–	POWER : OFF Eloigner la porte.	Tête D'ENREGISTREMENT/LECTURE	Demagnétiser la tête D'ENREGISTREMENT/LECTURE avec un démagnétiseur de tête.	
[2]	**NETTOYAGE**	–	–	PLAY	Tête D'ENREGISTREMENT/LECTURE tête d'effacement, cabestan, galet-presseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement. le cabestan et le galet-presseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	**AZIMUT**	MTT-256 10 kHz, –20 dBs	(A)	PLAY	Vis d'azimut	Ajuster la vis de réglage de l'azimut de façon que la tension de sortie soit maximale à la fois en avant et en arrière, de la bande d'essai.	(a)
MOTEUR CC							
(i)	**VITESSE DE DEFILEMENT**	MTT-111 MTT-111D	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3 kHz soit produit au centre de la bande.	(b)
II	**PLAQUE IMPRIMEE (X28-1580-12)**						
(1)	**NIVEAU DE LECTURE**	MTT-256 315 Hz, 0 dBs	(A)	PLAY	VR3 (G) VR4 (D)	Niveau de sortie : –9 dBs	
(2)	**COURANT DE POLARISATION**	(C) 1 kHz, –30 dBs 10 kHz, –30 dBs	(A)	Régler REC et BALANCE de façon que la sortie de moniteur REC soit de –29 dBs à 1 kHz, puis enregistrer et reproduire des signaux de 1 kHz et 10 kHz en alternance.	VR9 (G) VR10 (D)	Enregistrer un signal de 1 kHz et 10 kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	
(3)	**NIVEAU D'ENREGISTREMENT**	(C) 1 kHz, –30 dBs	(A)	Enregistrer et reproduire un signal de 1 kHz dans les conditions précisées en (2).	VR7 (G) VR8 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de –29 dBs.	
(4)	**INDICATEUR DE NIVEAU DE CRETE A DIODE LED**	(C) 1 kHz, –10 dBs	(A)	REC PAUSE Ajuster REC et BALANCE de façon à ce que la sortie moniteur soit de –9 dBs à 1 kHz.	–	–	
(5)	**INDICATEUR DE NIVEAU DE CRETE A DIODE LED**	(C) 1 kHz, –10 dBs	(A)	REC PAUSE Ajuster REC et BALANCE de façon à ce que la sortie moniteur soit de –9 dBs à 1 kHz.	VR5 (G) VR6 (D)	Le segment de diode LED 0dB soit complétement allumé.	

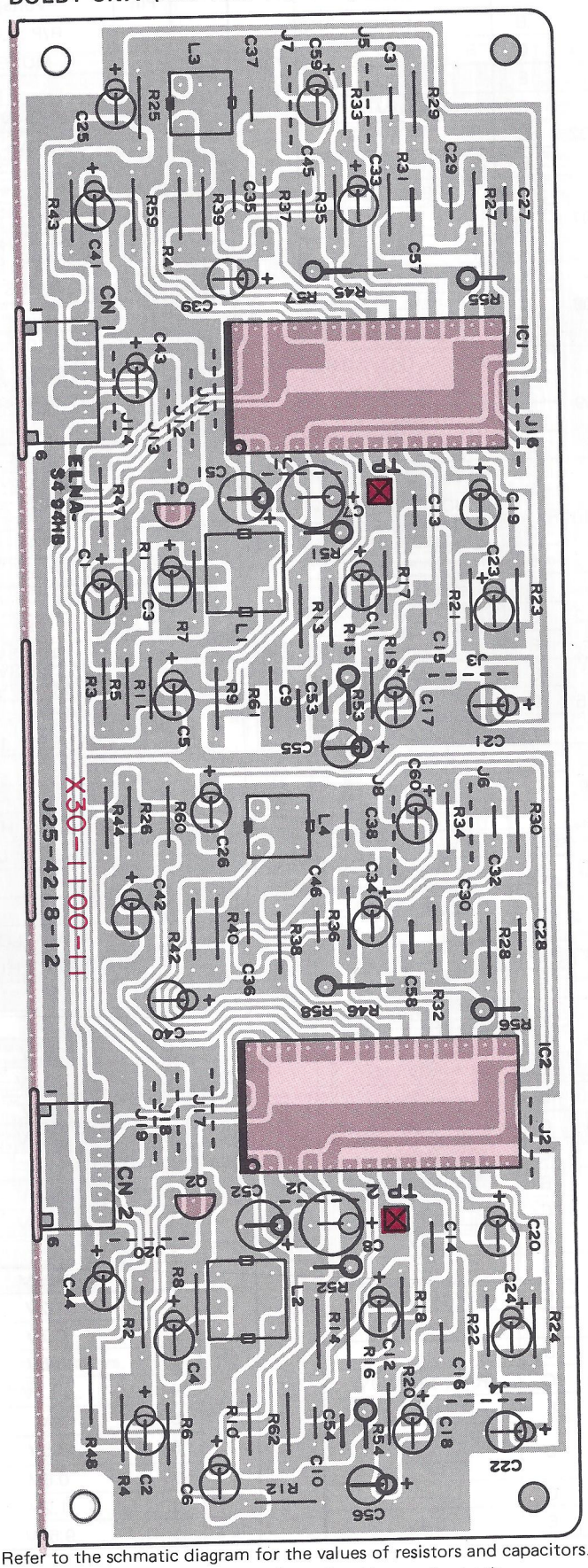


PC BOARD

Voltage

	Pin	Voltage
IC1, IC2	1	7.1V
	2	7.1V
	3	0V
	4	6.8V
	5	7.1V
	6	7.1V
	7	7.2V
	8	7.1V
	9	7.1V
	10	0.01V
	11	1.0V
	12	1.0V
	13	0.01V
	14	6.3V
	15	7.6V
	16	7.0V
	17	7.0V
	18	7.1V
	19	7.1V
	20	1.0V
	21	1.0V
	22	7.3V
	23	7.3V
	24	7.4V
	25	7.4V
	26	PLAY : 0V REC : 4.2V
	27	OFF : 5.3V B : 7.6V C : 9.6V
	28	14.1V

DOLBY UNIT (X30-1100-11) Component side view



Refer to the schmatic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

Voltage

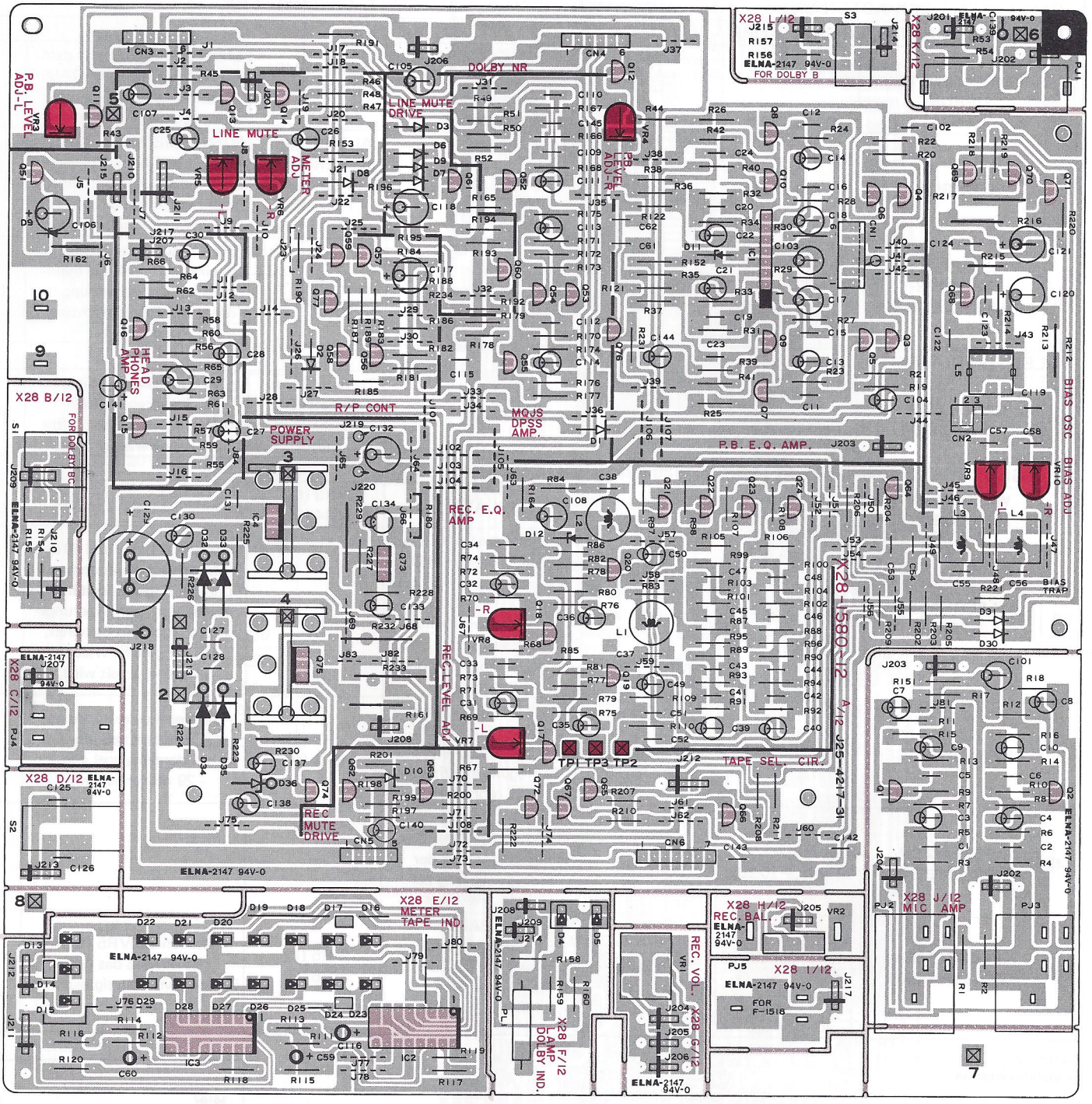
	Pin	Voltage
Q1	B	1.1V
	C	6.5V
	E	0.5V
Q2	B	1.1V
	C	6.5V
	E	0.5V
Q7	B	REC : 0.6V
	C	–
	E	0V
Q8	B	REC : 0.6V
	C	–
	E	0V
Q9	B	METAL, CrO_2 : 0.6V NORMAL : 0V
	C	0V
	E	–
Q10	B	METAL, CrO_2 : 0.6V NORMAL : 0V
	C	0V
	E	–
Q12	B	REC : 0.6V
	C	0V
	E	–
Q15	B	10.9V
	C	14V
	E	10.2V
Q19	B	2.3V
	C	6.3V
	E	1.7V
Q20	B	2.3V
	C	6.3V
	E	1.7V
Q51	B	–
	C	15.0V
	E	14.0V
Q53	B	0.5V
	C	1.2V
	E	0V
Q54	B	1.2V
	C	3.3V
	E	0.6V
Q56	B	R/P : 0V/1.8V
	C	–
	E	0V
Q57	B	–
	C	R/P : 0V/11.0V
	E	–
Q59	B	–
	C	R/P : 14.9V/0V
	E	15V
Q60	B	PLAY : LOW STOP : HI
	C	–
	E	5.4V

	Pin	Voltage
Q62	B	R/P : LOW R. MUTE : HI
	C	–
	E	5.4V
Q64	B	METAL : HI OTHERS : LOW
	C	–
	E	0V
Q65	B	NORMAL : LOW OTHERS : HI
	C	–
	E	0V
Q66	B	CrO_2 : HI OTHERS : LOW
	C	–
	E	0V
Q67	B	METAL : HI OTHERS : LOW
	C	–
	E	0V
Q68	B	–
	C	–
	E	N : 8.5V C : 6.3V M : 0.7V
Q69	B	METAL : HI OTHERS : LOW
	C	–
	E	–
Q70	B	CrO_2 : HI OTHERS : LOW
	C	–
	E	–
Q71	B	PLAY : LOW REC : HI
	C	–
	E	0V
Q73	B	6.0V
	C	10.4V
	E	5.4V
Q74	B	15.2V
	C	–
	E	14.6V
Q75	B	14.6V
	C	–
	E	14.1V
IC1	1	1.2V
	2	0.7V
	3	3.6V
	4	10.7V
	5	0V
	6	3.6V
	7	0.6V
	8	1.2V
IC2	1	9.57V

	Pin	Voltage
IC2	2	11.1V
	3	12.6V
	4	11.1V
	5	12.6V
	6	11.1V
	7	12.6V
	8	0V
	9	0.69V
	10	14.1V
	11	0V
	12	0V
	13	0V
	14	2.71V
	15	0.83V
	16	0.76V
IC3	1	9.57V
	2	11.1V
	3	12.6V
	4	11.1V
	5	12.6V
	6	11.1V
	7	12.6V
	8	0V
	9	0.69V
	10	14.1V
	11	0V
	12	0V
	13	0V
	14	2.71V
	15	0.83V
	16	0.76V
IC4	IN	24.4V
	OUT	15.0V

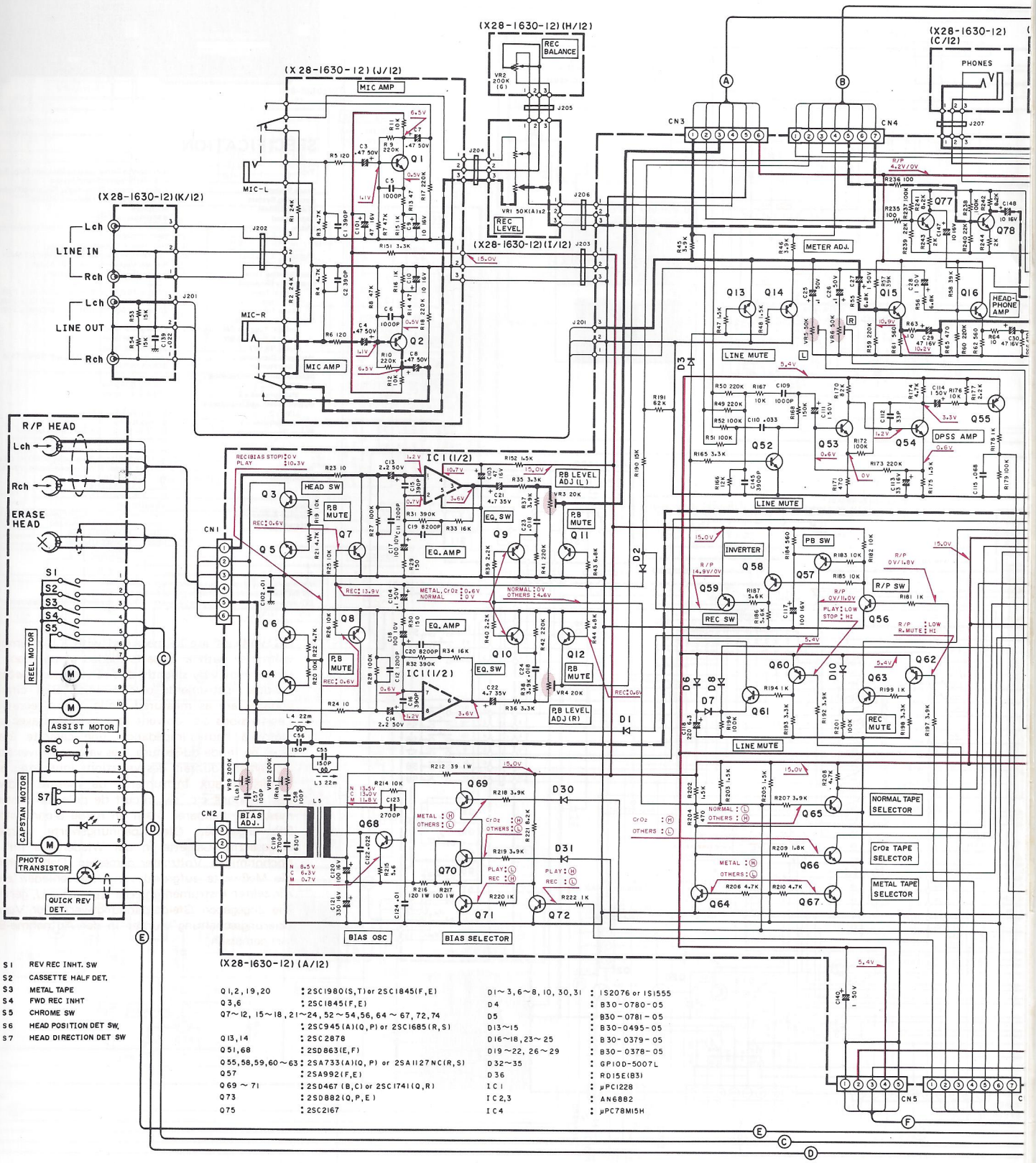
PC BOARD

R/P AMP UNIT (X28-1580-12) Component side view



Refer to the schmatic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

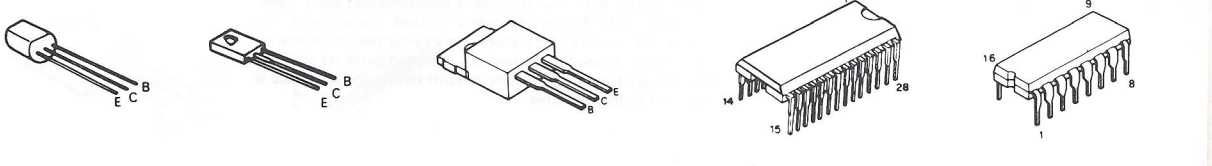
KENWOOD



S1 REV REC INHT. SW
S2 CASSETTE HALF DET.
S3 METAL TAPE
S4 FWD REC INHT
S5 CHROME SW
S6 HEAD POSITION DET SW.
S7 HEAD DIRECTION DET SW

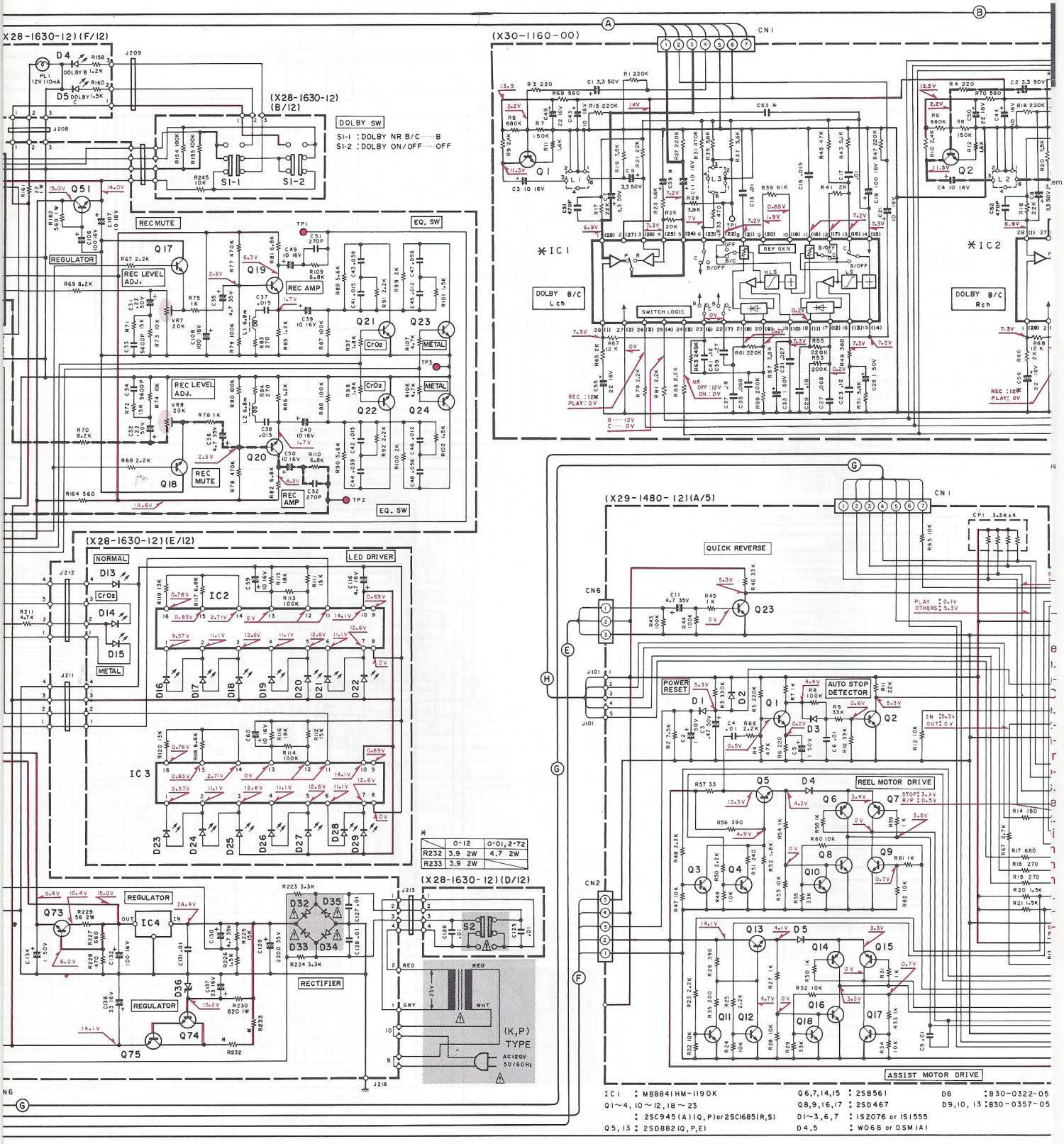
Q1,2,19,20	: 2SC1980(S,T) or 2SC1845(F,E)	D1~3,6~8,10,30,31	: IS2076 or IS1555
Q3,6	: 2SC1845(F,E)	D4	: B30-0780-05
Q7~12, 15~18, 21~24, 52~54, 56, 64~67, 72, 74	: 2SC945(A)(Q,P) or 2SC1685(R,S)	D5	: B30-0781-05
Q13,14	: 2SC2878	D13~15	: B30-0495-05
Q51,68	: 2SD863(E,F)	D16~18,23~25	: B30-0379-05
Q55,58,59,60~63	: 2SA733(A)(Q,P) or 2SA1127NC(R,S)	D19~22, 26~29	: B30-0378-05
Q57	: 2SA992(F,E)	D32~35	: GP10D-5007L
Q69 ~ 71	: 2SD467(B,C) or 2SC1741(Q,R)	D36	: RD15E(B3)
Q73	: 2SD882(Q,P,E)	IC1	: μPC1228
Q75	: 2SC2167	IC2,3	: AN6882
		IC4	: μPC78M15H

2SA1127NC	2SC1980	2SD882	2SC2167	HA12058	AN6882	UPC12
2SA733	2SC2878					
2SA992	2SC945					
2SC1685	2SD467					
2SC1741	2SD863					
2SC1845						



STEREO CASSETTE DECK

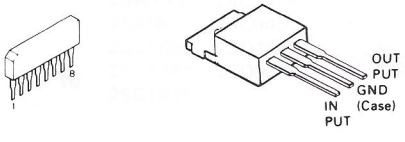
F G H I J



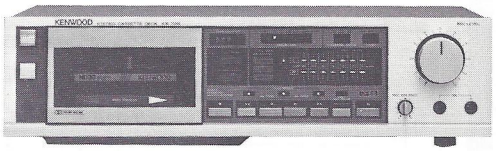
*	0-12	0-01,2-72
R232	3.9 2W	4.7 2W
R233	3.9 2W	

IC1 : MB8841HM-1190K
Q1~4, 10~12, 18~23 : 2SC945(A)(Q,P)or2SC1685(R,S)
Q5, 13 : 2SD882(Q,P,E)
Q6,7,14,15 : 2SB561
Q8,9,16,17 : 2SD467
D1~3,6,7 : IS2076 or IS1555
D4,5 : W06B or DSM1A1
D8 : B30-0322-05
D9,10,13 : B30-0357-05

228H UPC78M15H



KX-72R

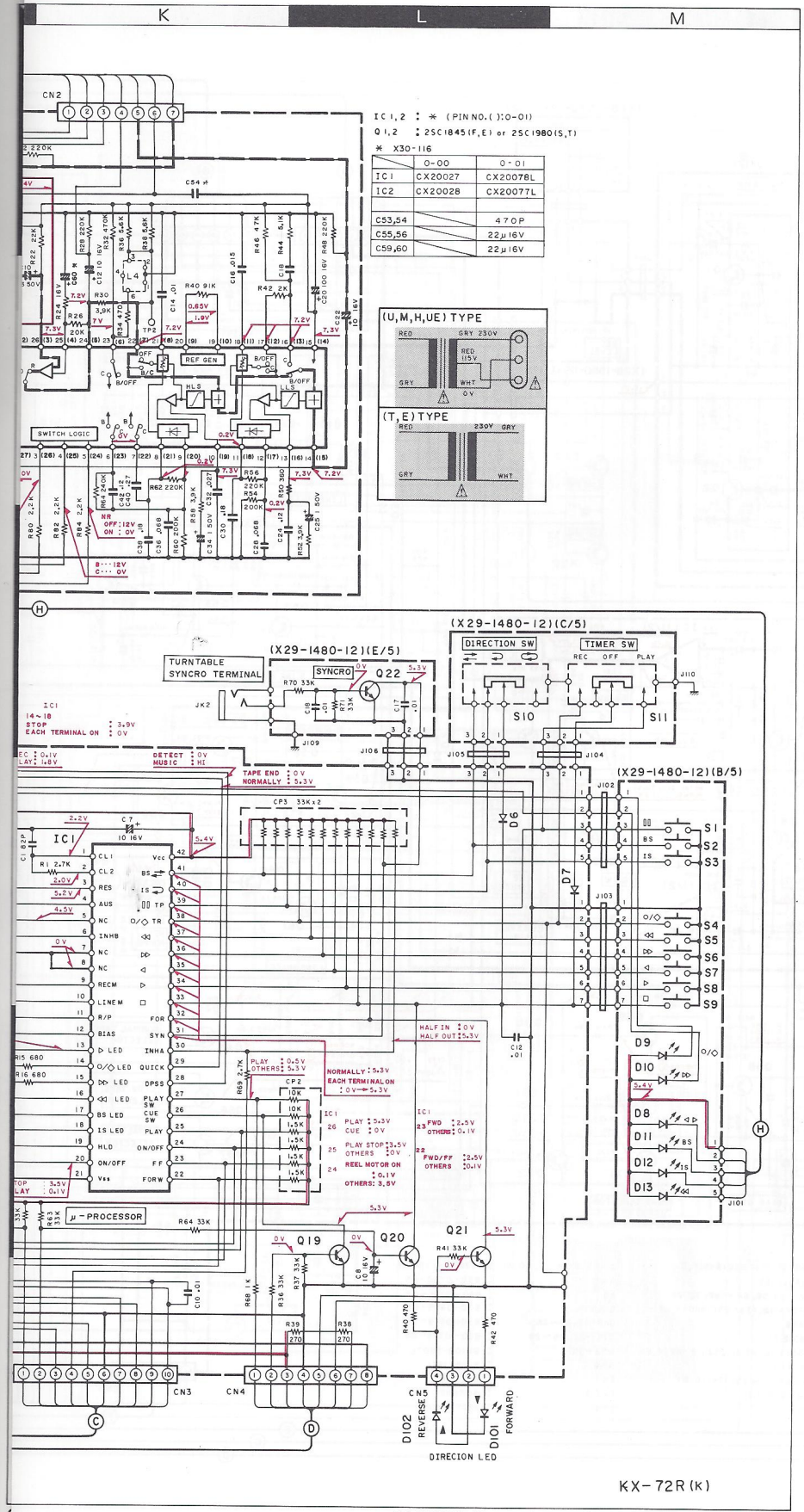


SPECIFICATION

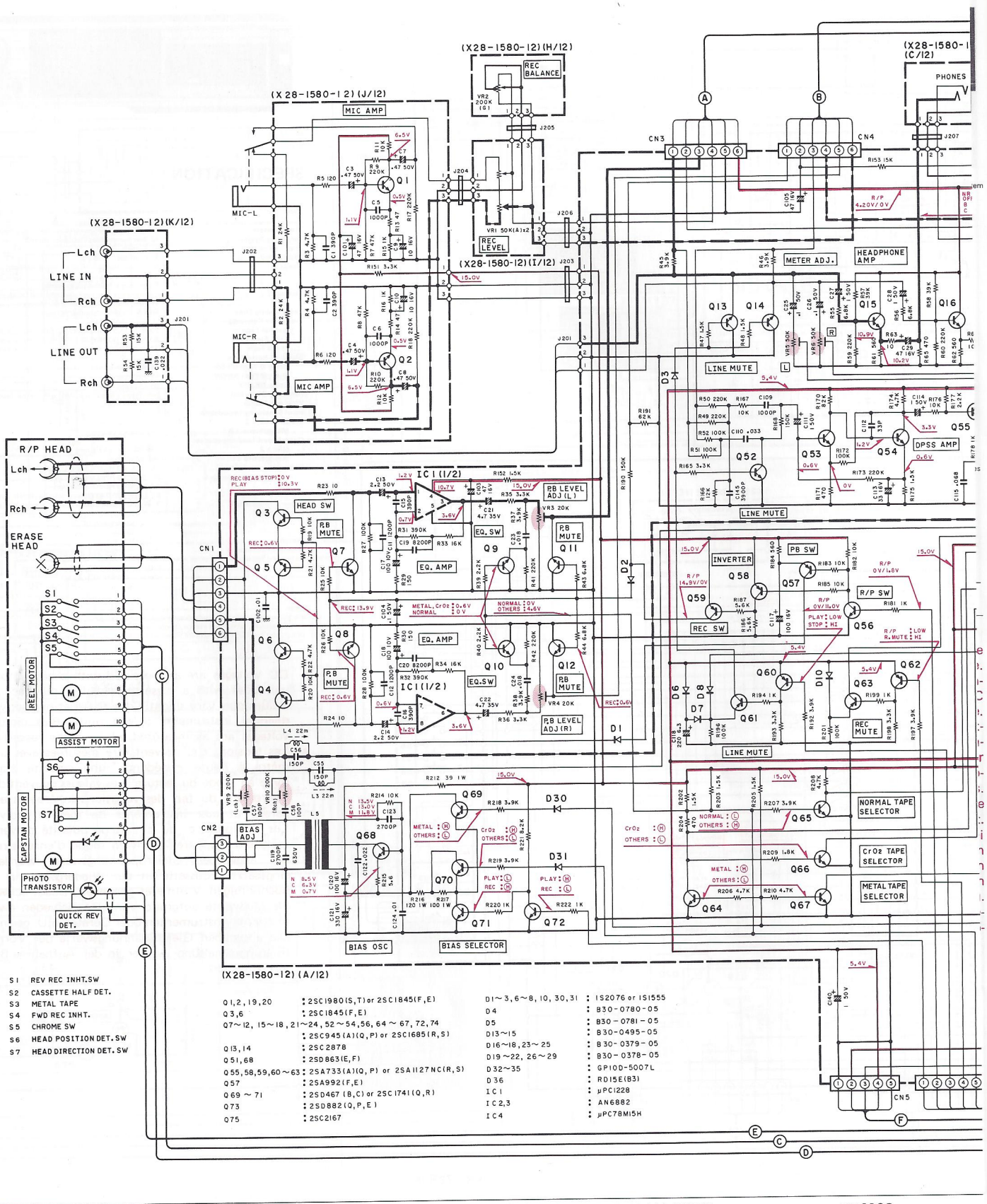
Type	Auto Reverse Stereo Cassette Deck with Dolby B·C NR System and Direct Program Search System
Track System	4-track, 2-channel Stereo/Mono, Recording/Playback
Recording System	AC Bias System (Bias Frequency: 85 kHz)
Erasing System	AC System
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and Playback Head × 1 (Hard Permalloy Head with Sendust Guard) Erase Head × 1 (Double Gap Ferrite)
Motors	Capstan Drive: Electronically Controlled DC Motor Reel and Mechanism Drive: 2 DC Motors
Fast Winding Time	Approx. 75 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ±3 dB)
CrO₂ Tape	20 Hz to 17,000 Hz (30 Hz to 16,000 Hz, ±3 dB)
Metal Tape	20 Hz to 17,000 Hz (30 Hz to 16,000 Hz, ±3 dB)
Signal-to-Noise Ratio:	
Dolby C Type NR ON	75 dB (Metal Tape)
Dolby B Type NR ON	67 dB (Metal Tape)
Dolby NR OFF	58 dB (Metal Tape)
Harmonic Distortion	Less than 1.0% (at 1 kHz, 0 VU with Normal Tape)
Wow and Flutter	0.055% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE × 2	77.5 mV/50 kohms
Microphones × 2	0.65 mV/4.7 kohms
Output Level/Load Impedance:	
LINE × 2	275 mV (0 VU)/47 kohms
Headphones × 1	0.2 mW/8 ohms
Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada Models AC 240V, 50 Hz: U.K. Model AC 220V, 50 Hz: European Model AC 120V/220-240V (Switchable), 50/60 Hz: Other Countries
Power Consumption	30W (U.K. model), 26W (European model), 29W (Others)
Dimensions	W: 420 mm (16-17/32") H: 113 mm (4-7/16") D: 275 mm (10-27/32")
Weight	4.8 kg (10.6 lb)
Supplied Accessories	Head Cleaning Set × 1, Audio Connection Cables × 2
Reference Tapes	Normal: KENWOOD ND/ND-x60 CrO₂: KENWOOD CD-60 Metal: KENWOOD MD-60

Note:
We follow a policy of continuous advancements in development.
For this reason specifications may be changed without notice.
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary sllightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegeben Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegeben Gleichspannungswerte der Vormagnetisierungsschaltung wurder in der Aufnahme-Betriebsart gemessen.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

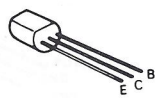


S1 REV REC INHT.SW
S2 CASSETTE HALF DET.
S3 METAL TAPE
S4 FWD REC INHT.
S5 CHROME SW
S6 HEAD POSITION DET. SW
S7 HEAD DIRECTION DET. SW

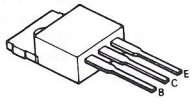
Q1,2,19,20	: 2SC1980(S,T) or 2SC1845(F,E)
Q3,6	: 2SC1845(F,E)
Q7~12, 15~18, 21~24, 52~54, 56, 64~67, 72, 74	: 2SC945(A)(Q,P) or 2SC1685(R,S)
Q13,14	: 2SC2878
Q51,68	: 2SD863(E,F)
Q55,58,59,60~63	: 2SA733(A)(Q,P) or 2SA1127NC(R,S)
Q57	: 2SA992(F,E)
Q69~71	: 2SD467(B,C) or 2SC1741(Q,R)
Q73	: 2SD882(Q,P,E)
Q75	: 2SC2167
D1~3,6~8,10,30,31	: 1S2076 or 1S1555
D4	: B30-0780-05
D5	: B30-0781-05
D13~15	: B30-0495-05
D16~18,23~25	: B30-0379-05
D19~22,26~29	: B30-0378-05
D32~35	: GP10D-5007L
D36	: RD15E(B3)
IC1	: μPC1228
IC2,3	: AN6882
IC4	: μPC78M15H

2SA1127 2SC1980
2SA733 2SC2878
2SA992 2SC945
2SC1685 2SD467
2SC1741 2SD863
2SC1845

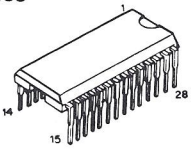
2SD882



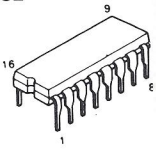
2SC2167



HA12058

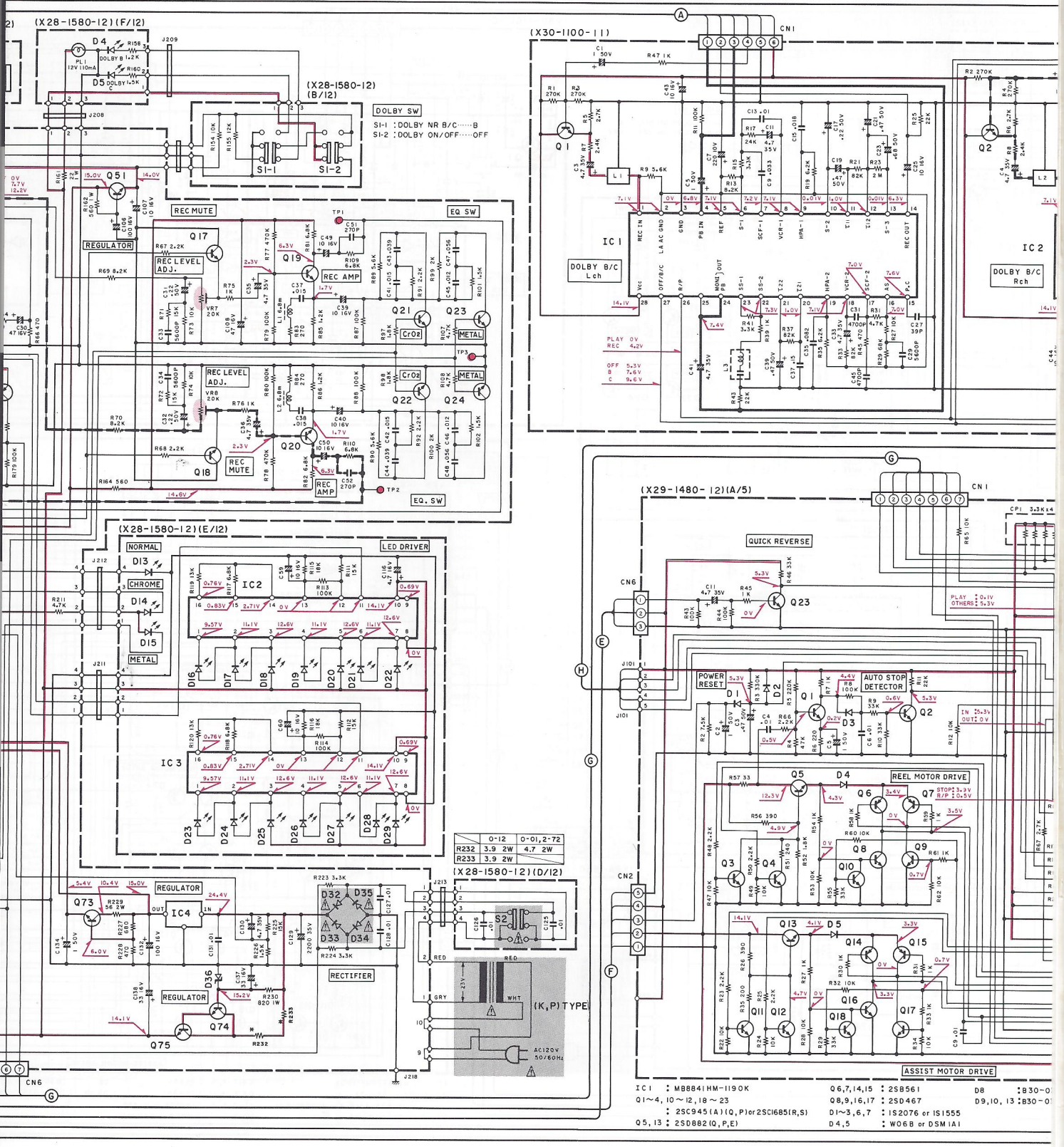


AN6882



STEREO CASSETTE DECK

F G H I J



	0-12	0-01,2-72
R232	3.9 2W	4.7 2W
R233	3.9 2W	

IC1 : MB8841HM-1190K
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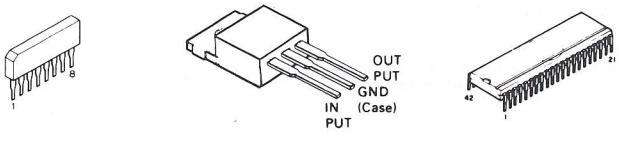
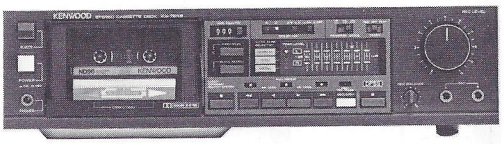
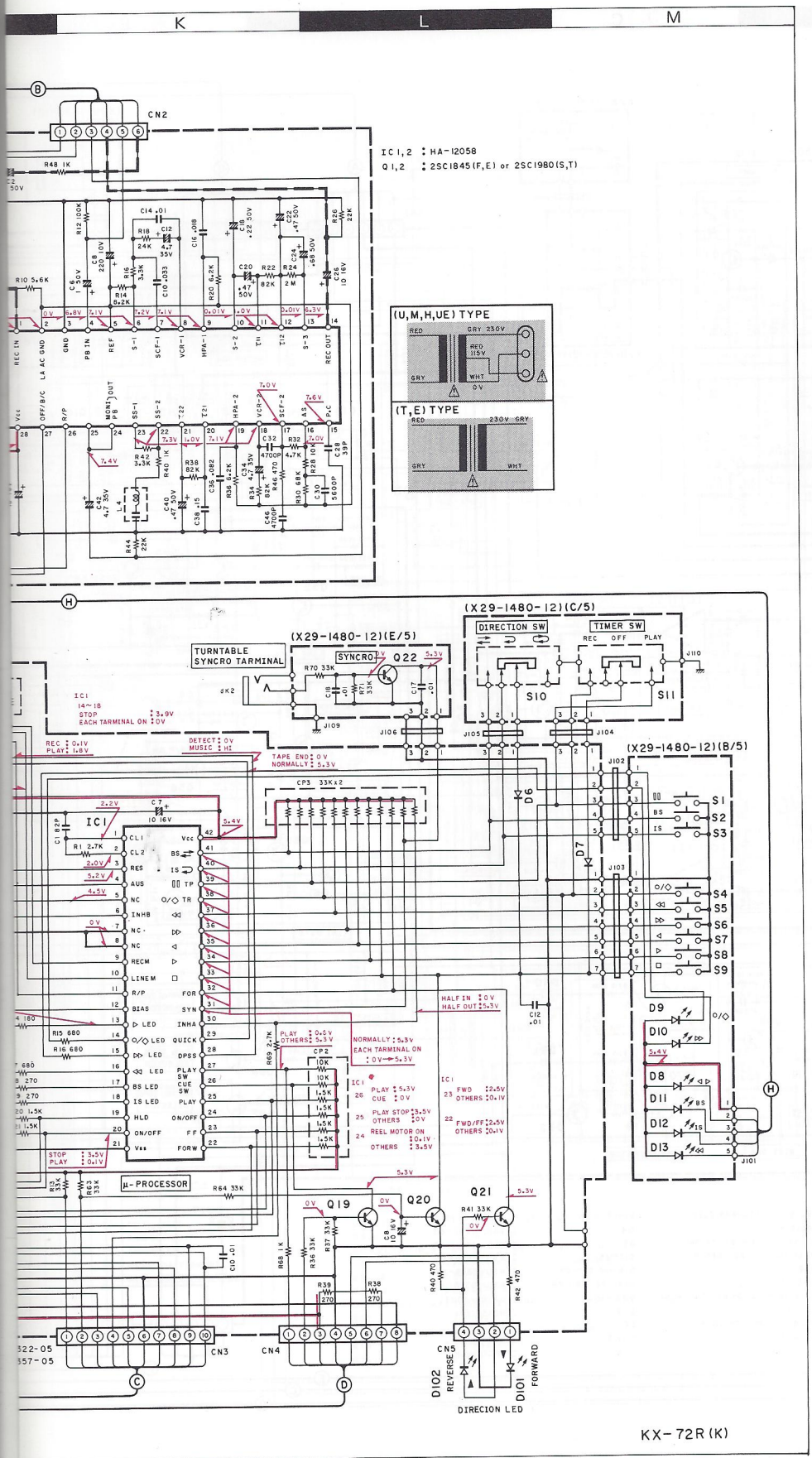
Q6,7,14,15 : 2SB561
Q8,9,16,17 : 2SD467
D1~3,6,7 : IS2076 or IS1555
D4,5 : W06B or DSM1A1
D8 : B30-0
D9,10, 13 : B30-0

UPC1228H UPC78M15H MB8841HM-1190K



KX-72RB





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SPECIFICATION

Type	Auto Reverse Stereo Cassette Deck with Dolby B-C NR System and Direct Program Search System
Track System	4-track, 2-channel Stereo/Mono, Recording/Playback
Recording System	AC Bias System (Bias Frequency: 85 kHz)
Erasing System	AC System
Tape Speed	4.76 cm/sec (1-7/8 ips)
Heads	Record and Playback Head × 1 (Hard Permalloy Head with Sendust Guard) Erase Head × 1 (Double Gap Ferrite)
Motors	Capstan Drive: Electronically Controlled DC Motor Reel and Mechanism Drive: 2 DC Motors
Fast Winding Time	Approx. 75 seconds with C-60 tape
Frequency Response:	
Normal Tape	20 Hz to 16,000 Hz (30 Hz to 15,000 Hz, ±3 dB)
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Dolby B Type NR ON	67 dB (Metal Tape)
Dolby NR OFF	58 dB (Metal Tape)
Harmonic Distortion	Less than 1.0% (at 1 kHz, 0 VU with Normal Tape)
Wow and Flutter	0.055% (W.R.M.S.)
Input Sensitivity/Impedance:	
LINE × 2	77.5 mV/50 kohms
Microphones × 2	0.65 mV/4.7 kohms
Output Level/Load Impedance:	
LINE × 2	275 mV (0 VU)/47 kohms
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Power Requirements	AC 120V, 60 Hz: U.S.A. and Canada Models AC 240V, 50 Hz: U.K. Model AC 220V, 50 Hz: European Model AC 120V/220-240V (Switchable), 50/60 Hz: Other Countries
Power Consumption	30W (U.K. model), 26W (European model), 29W (Others)
Dimensions	W: 420 mm (16-17/32") H: 113 mm (4-7/16") D: 275 mm (10-27/32")
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Supplied Accessories	Head Cleaning Set × 1, Audio Connection Cables × 2
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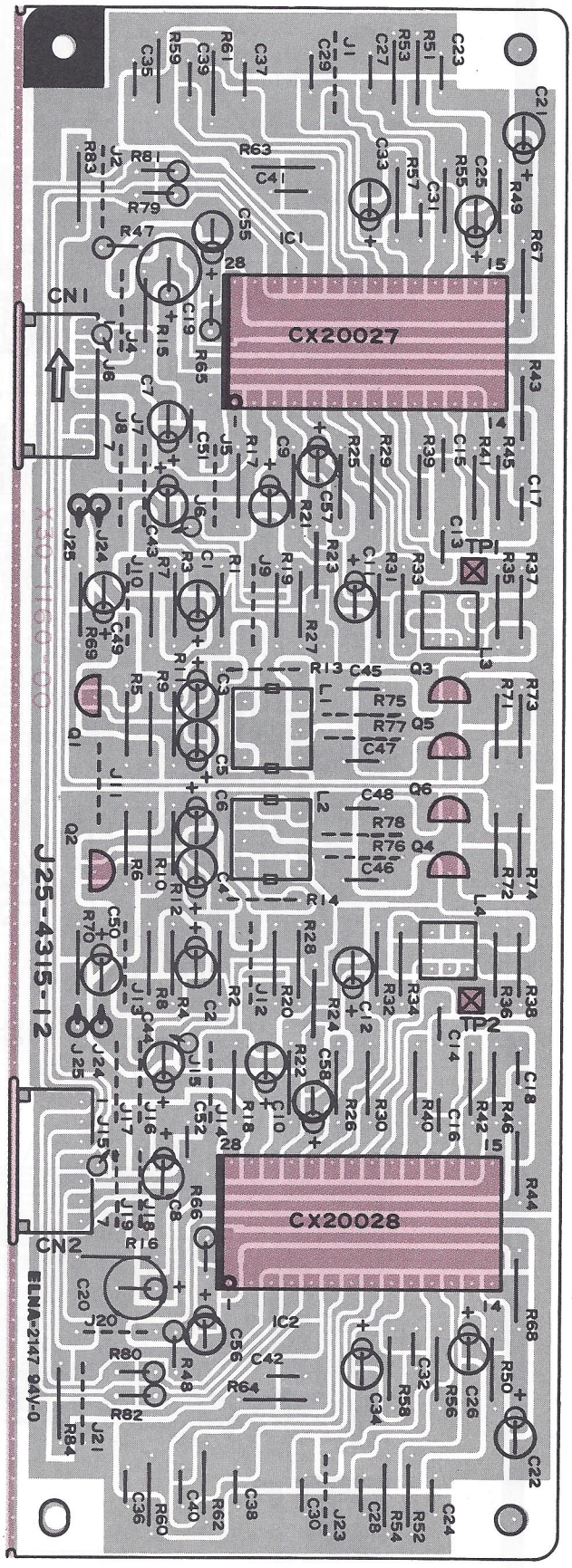
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegeben Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegeben Gleichspannungswerte der Vormagnetisierungsschaltung wurder in der Aufnahme-Betriebsart gemessen.

Voltage

	Pin	Voltage
Q1	B	2.2V
	C	11.3V
	E	–
Q2	B	2.2V
	C	11.3V
	E	–
IC1	1	6.9V
	2	14V
	3	7.3V
	4	7.3V
	5	7.2V
	6	7V
	7	7.2V
	8	7.2V
	9	1.9V
	10	0.65V
	11	7.2V
	12	7.2V
	13	7.2V
	14	7.3V
	15	7.2V
	16	7.3V
	17	0.2V
	18	0.2V
	19	7.3V
	20	0.2V
	21	0.2V
	22	0V
	23	0V
	24	NR OFF : 12V NR ON : 0V
	25	DOLBY B : 12V C : 0V
	26	PLAY : 0V REC : 12V
	27	0V
	28	7.3V
IC2	1	7.3V
	2	0V
	3	REC : 12V PLAY : 0V
	4	DOLBY B : 12V C : 0V
	5	NR OFF : 12V NR ON : 0V
	6	0V
	7	0V
	8	0.2V
	9	0.2V
	10	7.3V
	11	0.2V
	12	0.2V
	13	7.3V
	14	7.2V

	Pin	Voltage
IC2	15	7.3V
	16	7.2V
	17	7.2V
	18	7.2V
	19	0.65V
	20	1.9V
	21	7.2V
	22	7.2V
	23	7V
	24	7.2V
	25	7.3V
	26	7.3V
	27	14V
	28	6.9V

DOLBY UNIT (X30-1160-00) Component side view



PC BOARD

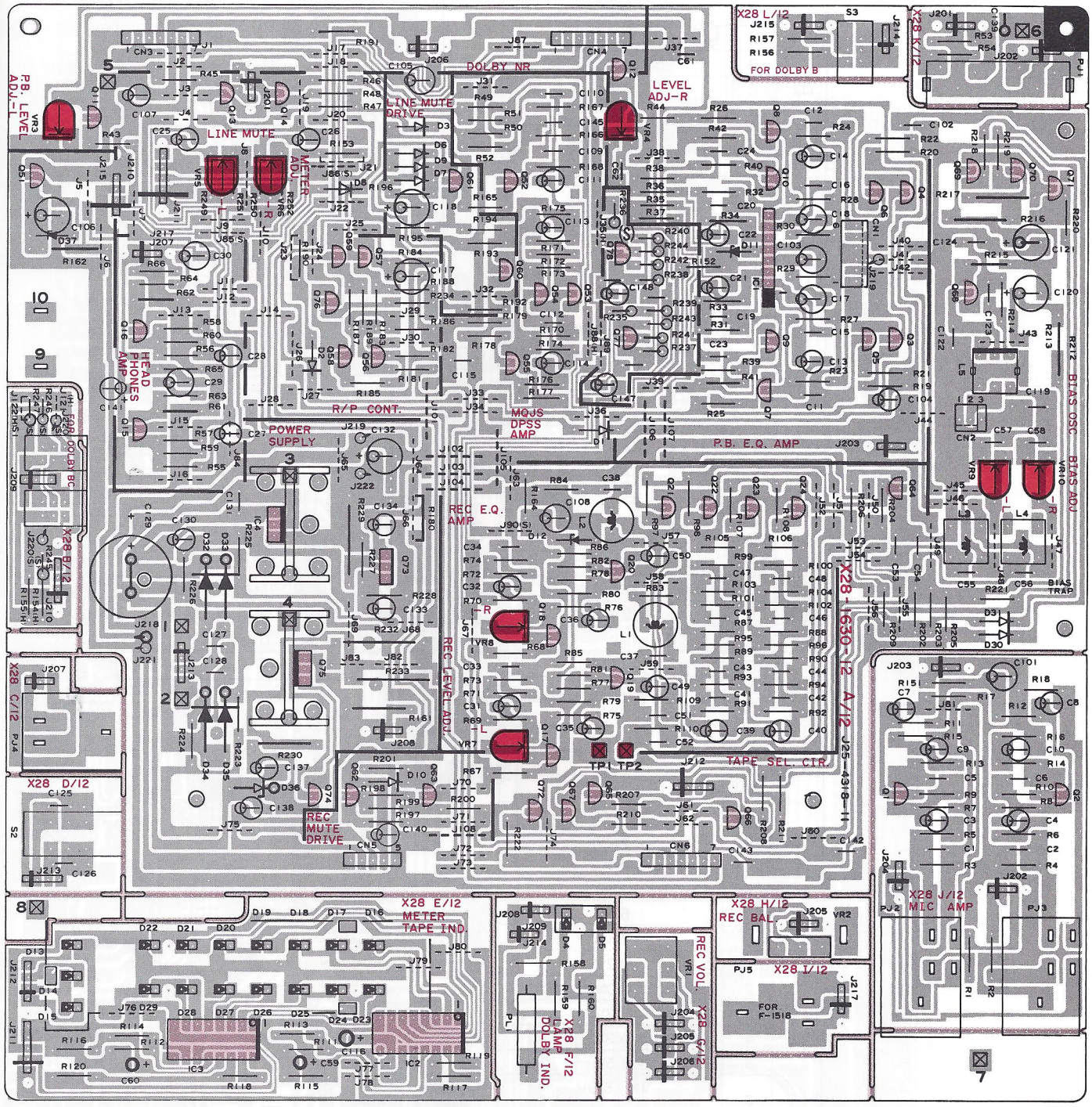
Voltage

	Pin	Voltage
Q1	B	1.1V
	C	6.5V
	E	0.5V
Q2	B	1.1V
	C	6.5V
	E	0.5V
Q7	B	REC : 0.6V
	C	–
	E	0V
Q8	B	REC : 0.6V
	C	–
	E	0V
Q9	B	METAL, CrO_2 : 0.6V NORMAL : 0V
	C	0V
	E	–
Q10	B	METAL, CrO_2 : 0.6V NORMAL : 0V
	C	0V
	E	–
Q12	B	REC : 0.6V
	C	0V
	E	–
Q15	B	10.9V
	C	–
	E	10.2V
Q19	B	2.3V
	C	6.3V
	E	1.7V
Q20	B	2.3V
	C	6.3V
	E	1.7V
Q51	B	–
	C	15.0V
	E	14.0V
Q53	B	0.5V
	C	1.2V
	E	0V
Q54	B	1.2V
	C	3.3V
	E	0.6V
Q56	B	R/P : 0V/1.8V
	C	–
	E	–
Q57	B	–
	C	R/P : 0V/11.0V
	E	–
Q59	B	–
	C	R/P : 14.9V/0V
	E	15V
Q60	B	PLAY : LOW STOP : HI
	C	–
	E	5.4V

	Pin	Voltage
Q62	B	R/P : LOW R. MUTE : HI
	C	–
	E	5.4V
Q64	B	METAL : HI OTHERS : LOW
	C	–
	E	0V
Q65	B	NORMAL : LOW OTHERS : HI
	C	–
	E	0V
Q66	B	CrO_2 : HI OTHERS : LOW
	C	–
	E	0V
Q67	B	METAL : HI OTHERS : LOW
	C	–
	E	0V
Q68	B	–
	C	–
	E	N : 8.5V M : 0.7V C : 6.3V
Q69	B	METAL : HI OTHERS : LOW
	C	–
	E	–
Q70	B	CrO_2 : HI OTHERS : LOW
	C	–
	E	–
Q71	B	PLAY : LOW REC : HI
	C	–
	E	–
Q73	B	6.0V
	C	10.4V
	E	5.4V
Q74	B	15.2V
	C	–
	E	–
Q75	B	–
	C	–
	E	14.1V
IC1	1	1.2V
	2	0.7V
	3	3.6V
	4	10.7V
	5	0V
	6	3.6V
	7	0.6V
	8	1.2V
IC2	1	9.57V

	Pin	Voltage
IC2	2	11.1V
	3	12.6V
	4	11.1V
	5	12.6V
	6	11.1V
	7	12.6V
	8	0V
	9	0.69V
	10	14.1V
	11	0V
	12	0V
	13	0V
	14	2.71V
	15	0.83V
	16	0.76V
IC3	1	9.57V
	2	11.1V
	3	12.6V
	4	11.1V
	5	12.6V
	6	11.1V
	7	12.6V
	8	0V
	9	0.69V
	10	14.1V
	11	0V
	12	0V
	13	0V
	14	2.71V
	15	0.83V
	16	0.76V
IC4	IN	24.4V
	OUT	15.0V

R/P AMP UNIT (X28-1630-12) Component side view



Refer to the schmatic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

Voltage

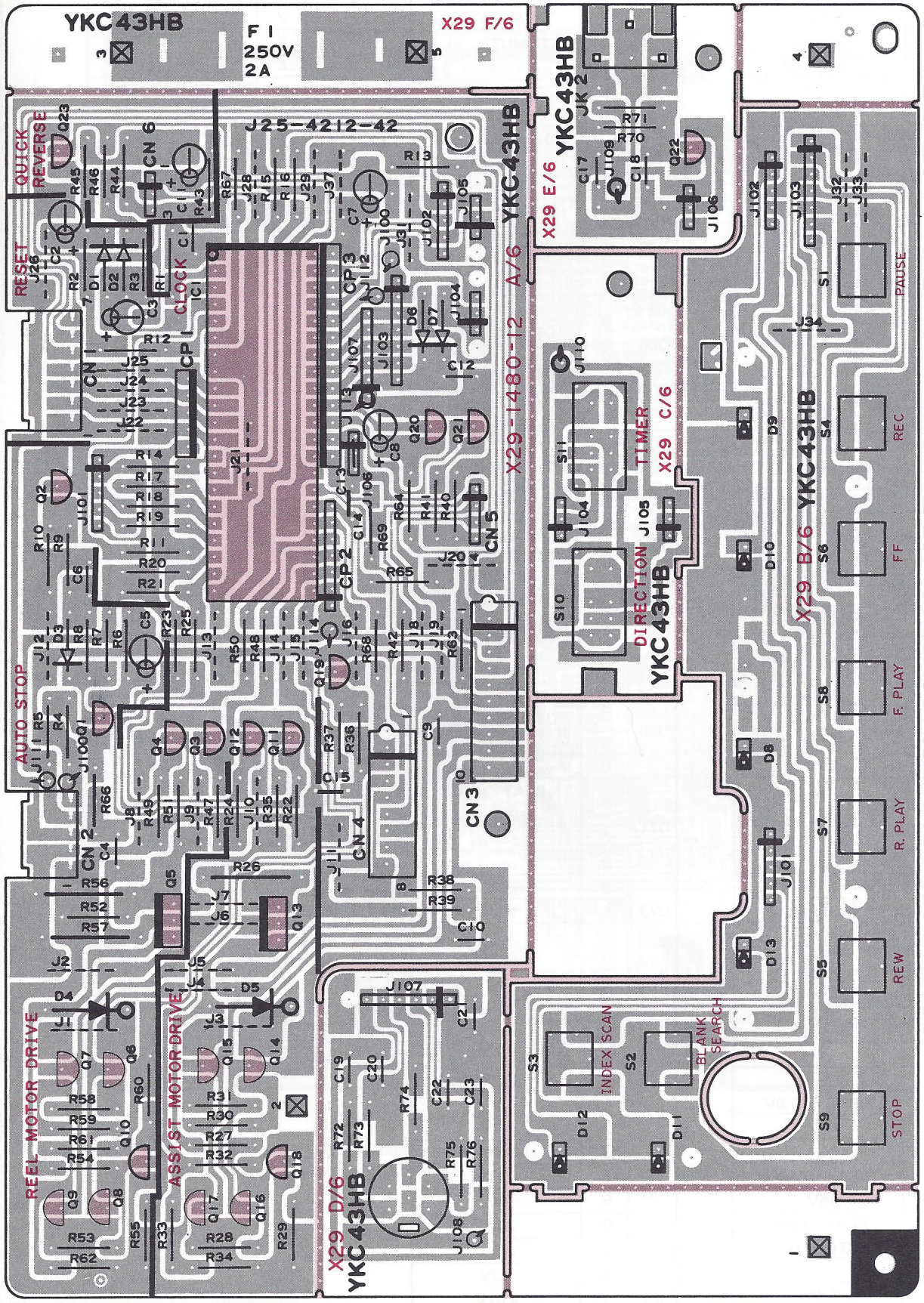
	Pin	Voltage
Q1	B	0.5V
	C	4.4V
	E	0.2V
Q2	B	0.6V
	C	5.3V
	E	0V
Q5	B	4.9V
	C	12.3V
	E	4.3V
Q7	B	–
	C	0V
	E	3.4V
Q9	B	0.7V
	C	–
	E	0V
Q12	B	–
	C	4.7V
	E	0V
Q13	B	4.7V
	C	14.1V
	E	4.1V
Q15	B	–
	C	0V
	E	3.3V
Q16	B	0V
	C	3.3V
	E	0V
Q19	B	0V
	C	5.3V
	E	0V
Q20	B	0V
	C	5.3V
	E	0V
Q21	B	0V
	C	5.3V
	E	0V
Q22	B	0V
	C	5.3V
	E	0V
IC1	1	2.2V
	2	2.0V
	3	5.2V
	4	5.3V
	5	4.5V
	6	IN : 5.3V OUT : 0V
	7	0V
	8	0V
	9	–
	10	PLAY : 0.1V OTHERS : 5.3V
	11	REC : 0.1V PLAY : 1.8V
	12	–

	Pin	Voltage
IC1	13	STOP : 3.9V R/P : 0.5V
	19	–
	20	STOP : 3.5V PLAY : 0.1V
	21	–
	22	FWD/FF : 2.5V OTHERS : 0.1V
	23	FWD : 2.5V OTHERS : 0.1V
	24	REEL MOTOR ON : 0.1V OTHERS : 3.5V
	25	PLAY STOP : 3.5V OTHERS : 0V
	26	PLAY : 5.3V CUE : 0V
	27	PLAY : 0.5V OTHERS : 5.3V
	28	DETECTED : 0V MUSIC : HI
	29	TAPE END : 0V NORMALLY : 5.3V
	30	HALF IN : 0V HALF OUT : 5.3V
	31 ~ 41	NORMALLY : 5.3V EACH TERMINAL ON : 0V → 5.3V
	42	5.4V

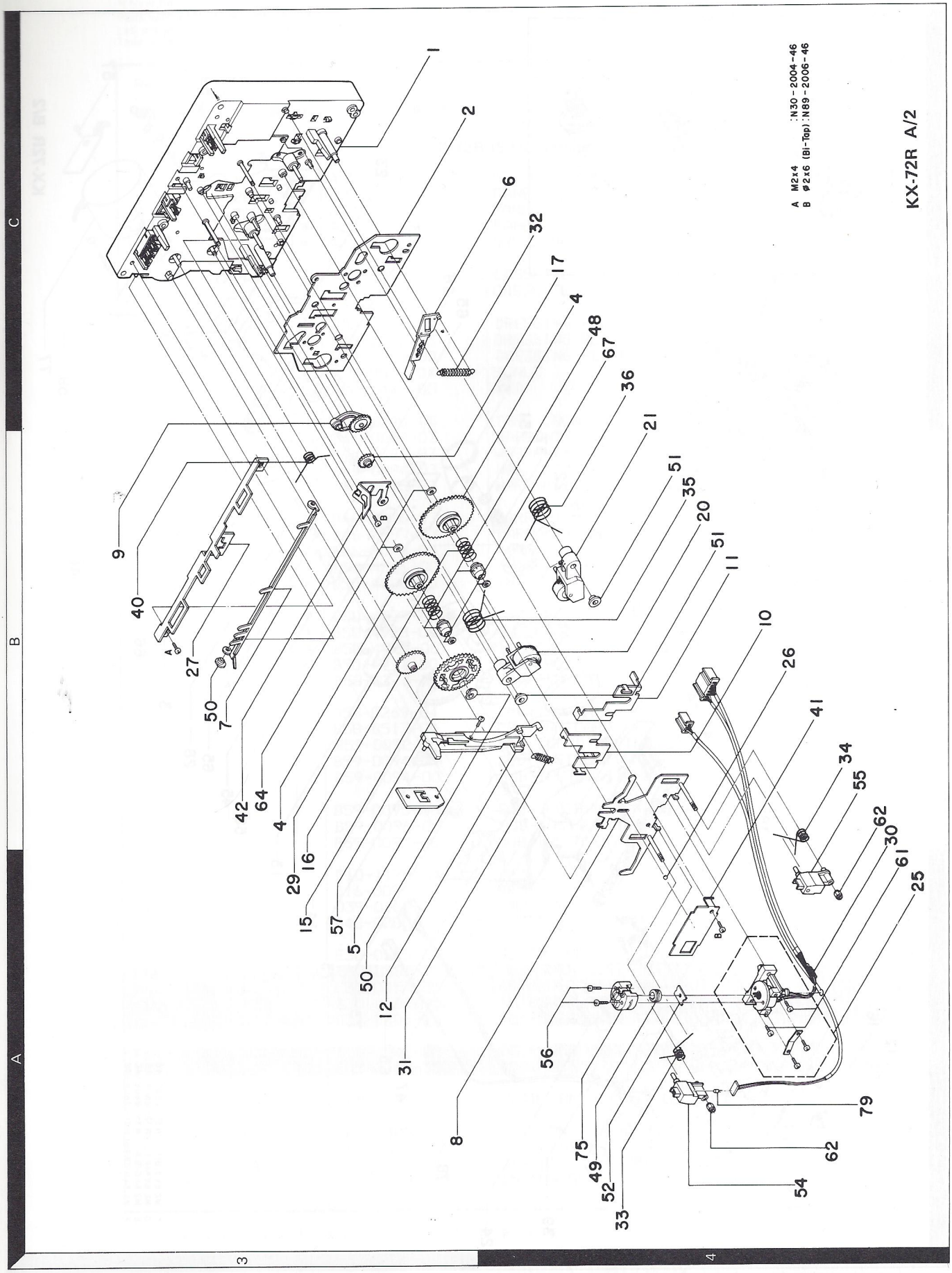
Refer to the schmatic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

DARD

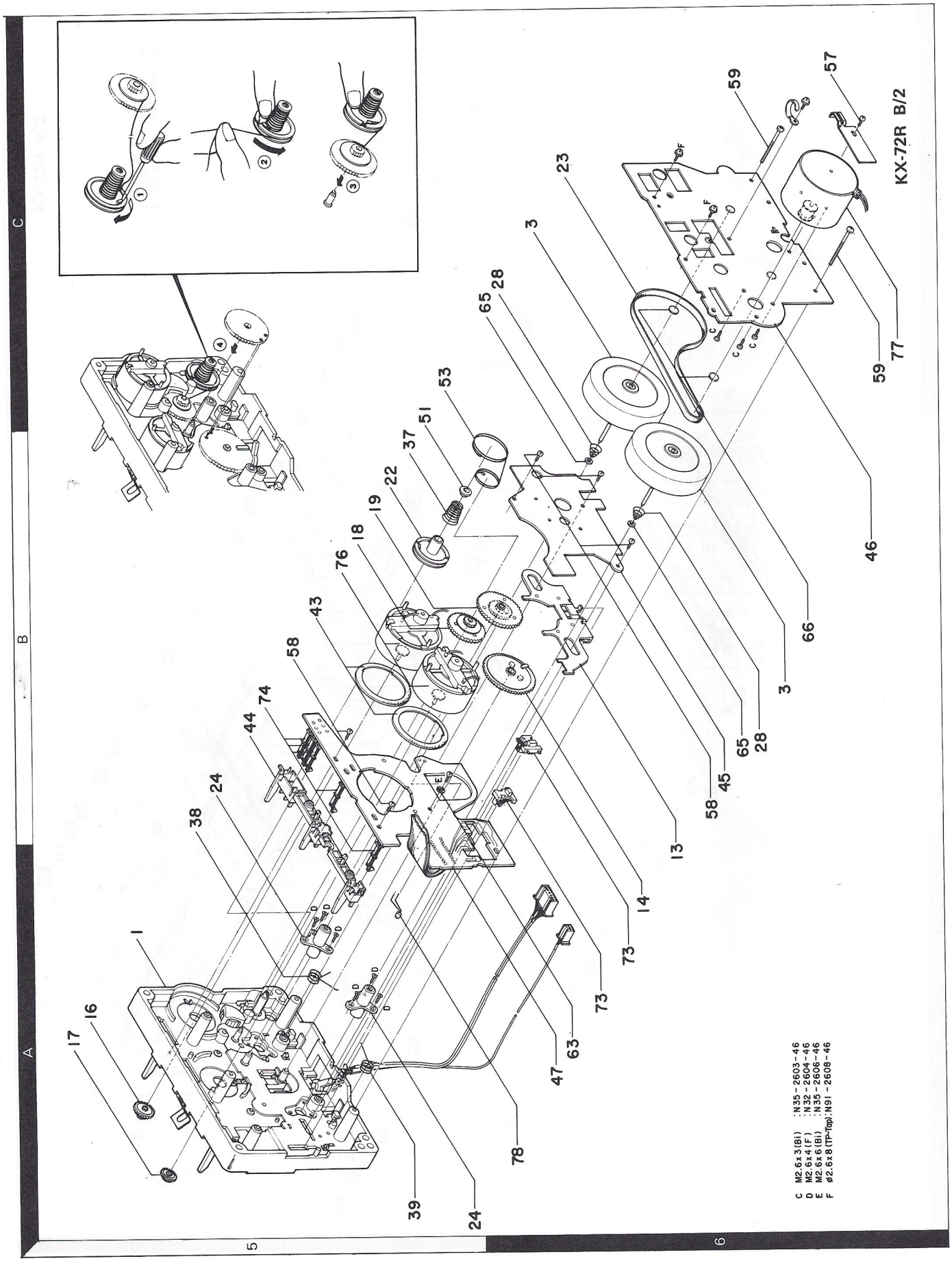
CONTROL UNIT (X29-1480-12) Component side view



EXPLODED VIEW (MECHANISM) (1)



EXPLODED VIEW (MECHANISM) (2)



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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KX-72R (Silver version)						
1	1B	*	A01-1301-02	METALLIC CABINET		
2	2B	*	A20-3640-02	PANEL	T	
2	2B	*	A20-3641-02	PANEL	KPUM	
2	2B	*	A20-3641-02	PANEL	UEXE	
3	2B	*	A21-0436-03	DRESSING PANEL ASSY		
4	2A	*	A53-0099-03	CASSETTE HOLDER ASSY		
5	2A	*	A53-0292-03	CASSETTE LID		
6	2A	*	B03-1019-04	DRESSING PLATE		
7	1B	*	B03-1021-03	DRESSING PLATE		
8	2A	*	B03-1023-03	DRESSING PLATE		
9	2B	*	B20-0557-04	SCALE		
10	2A		B30-0449-05	LED		
11	1B		B35-0025-15	TAPE COUNTER		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-4926-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-4926-00	INSTRUCTION MANUAL(ENGLISH)	UEX	
-		*	B50-4927-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-4928-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-4929-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B50-4992-00	INSTRUCTION MANUAL(G,SW,D,I)	E	
-			B58-0223-04	CAUTION CARD	U	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD	UE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
-			B59-0094-00	SUB-INSTRUCTION MANUAL	KPUM	
-			B59-0094-00	SUB-INSTRUCTION MANUAL	UEXT	
-			B59-0095-00	SUB-INSTRUCTION MANUAL	PMXE	
-			B59-0096-00	SUB-INSTRUCTION MANUAL	M	
-			B59-0097-00	SUB-INSTRUCTION MANUAL	E	
12	1B		D10-1179-04	ARM		
13	1C		D16-0091-04	BELT		
14	1B		D39-0164-05	DAMPER		
15	1B		D40-0288-05	CASSETTE MECHANISM ASSY		
16	1B		E30-0505-05	AUDIO CORD		
⚠ 17A	1C		E30-0181-05	AC POWER CORD	KP	
⚠ 17A	1C		E30-0459-05	AC POWER CORD	E	
⚠ 17A	1C		E30-0587-15	AC POWER CORD	T	
⚠ 17A	1C		E30-1305-15	AC POWER CORD (INLET)	UMUE	
⚠ 17A	1C		E30-1342-05	AC POWER CORD (INLET)	X	
⚠ 17B	1C		E03-0102-15	AC INLET	UMUEX	
18	2A		F09-0052-14	HEAD PROTECTOR		
19	1B		G01-1389-04	TORSION COIL SPRING		
20	1A		G01-1401-04	COMPRESSION SPRING		
21	2A		G09-0224-04	SPRING		
22	2B		G11-0429-04	INSULATOR ASSY		

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–		*	H01-4976-04	ITEM CARTON CASE	T	
–		*	H01-4977-04	ITEM CARTON CASE	KPUM	
–		*	H01-4977-04	ITEM CARTON CASE	UEXE	
–			H10-1693-02	POLYSTYRENE FOAMED FIXTURE		
–			H20-0417-04	PROTECTION COVER	M	
–			H25-0078-04	PROTECTION BAG		
–			H25-0215-04	PROTECTION BAG	KPUUE	
–			H25-0215-04	PROTECTION BAG	XTE	
–			H40-0005-04	RUST PREVENTING PAPER	M	
23	2C		J02-0126-05	FOOT		
⚠ 24	1C		J42-0083-05	POWER CORD BUSHING	KPTE	
25	2A		K27-0896-04	KNOB (BUTTON) DOLBY		
27	2A		K29-1230-04	KNOB (REC BALANCE)		
28	2A,2B	*	K29-1334-04	KNOB (STOP,PLAY,PAUSE)		
29	2A,2B	*	K29-1335-04	KNOB (FF,REW)		
30	2B	*	K29-1336-04	KNOB (REC)		
31	2A	*	K29-1337-04	KNOB (B.S/I.S)		
32	1A	*	K29-1338-04	KNOB ASSY (EJECT)		
33	2A		K29-1354-04	KNOB (RECORD LEVEL)		
34	2A	*	K29-1446-04	KNOB ASSY (POWER)		
⚠ 35	1B		L01-3211-05	POWER TRANSFORMER	KP	
⚠ 35	1B	*	L01-3212-05	POWER TRANSFORMER	TE	
⚠ 35	1B	*	L01-3217-05	POWER TRANSFORMER	UMUEX	
36	1C		N09-0292-05	STEPPED SCREW 3X19(GND)		
38	1B,1C		N09-0831-04	TAPTITE SCREW M4X6(TRANSFORMER		
39	1B,1C		N09-1250-05	TAPTITE SCREW 3X6 (MECHANISM)		
40	1B,1C		N29-0216-05	RIVET		
41	1B		W01-0301-05	CLEANING STICK		
R/P AMP UNIT (X28-1580-12)						
D4	2A	*	B30-0780-05	LED DOLBY-B SLP-275B-50		
D5	2B	*	B30-0781-05	LED DOLBY-C SLP-475B-50		
D13 -15	2B		B30-0495-05	LED N/C/M SLP-175B-50		
D16 -18	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D19 -22	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
D23 -25	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D26 -29	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
PL1	2A		B30-0374-05	LAMP 12V 110MA		
C1 ,2		*	CK45FB1H391K	CERAMIC 390PF K		
C3 ,4			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C5 ,6			CK45FB1H102K	CERAMIC 0.001UF K		
C7 ,8			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C9 ,10			CE04FW1C100M	ELECTRO 10UF 16WV		
C11 ,12			CF92FV1H122J	MF 1200PF J		
C13 ,14			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C15 ,16			CC45FSL1H391J	CERAMIC 390PF J		
C17 ,18			CE04FW1A101M	ELECTRO 100UF 10WV		
C19 ,20		*	CF92FV1H822J	MF 8200PF J		
C21 ,22			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			CF92FV1H183J	MF 0.018UF J		
C25 ,26			CE04FW1H0R1M	ELECTRO 0.1UF 50WV		
C27 ,28			CE04FW1H010M	ELECTRO 1UF 50WV		
C29 ,30			CE04FW1C470M	ELECTRO 47UF 16WV		

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C31 ,32			CE04FW1HR22M	ELECTRO 0.22UF 50WV		
C33 ,34			CF92FV1H562J	MF 5600PF J		
C35 ,36			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C37 ,38			CF92FV1H153J	MF 0.015UF J		
C39 ,40			CE04FW1C100M	ELECTRO 10UF 16WV		
C41 ,42			CF92FV1H153J	MF 0.015UF J		
C43 ,44			CF92FV1H393J	MF 0.039UF J		
C45 ,46			CF92FV1H123J	MF 0.012UF J		
C47 ,48			CF92FV1H563J	MF 0.056UF J		
C49 ,50			CE04FW1C100M	ELECTRO 10UF 16WV		
C51 ,52			CC45FSL1H271J	CERAMIC 270PF J		
C55 ,56			CC45FSL1H151J	CERAMIC 150PF J		
C57 ,58			CC45FSL1H101J	CERAMIC 100PF J		
C59 ,60		＊	CE04JW1C100M	ALMINIUM ELECTROLYTIC C.		
C101			CE04FW1C470M	ELECTRO 47UF 16WV		
C102			CK45FF1H103Z	CERAMIC 0.01UF Z		
C103			CE04FW1C470M	ELECTRO 47UF 16WV		
C104			CE04FW1H0R1M	ELECTRO 0.1UF 50WV		
C105			CE04FW1C470M	ELECTRO 10UF 16WV		
C106			CE04FW1C101M	ELECTRO 100UF 16WV		
C107			CE04FW1C100M	ELECTRO 10UF 16WV		
C108			CE04FW1C470M	ELECTRO 47UF 16WV		
C109			CF92FV1H102J	MF 1000PF J		
C110			CF92FV1H333J	MF 0.033UF J		
C111			CE04FW1H010M	ELECTRO 1UF 50WV		
C112			CC45FSL1H330J	CERAMIC 33PF J		
C113			CE04FW1C330M	ELECTRO 33UF 16WV		
C114			CE04FW1H010M	ELECTRO 1UF 50WV		
C115			CF92FV1H683J	MF 0.068UF J		
C116		＊	CE04JW1C4R7M	ALMINIUM ELECTROLYTIC C.		
C117			CE04FW1C101M	ELECTRO 100UF 16WV		
C118			CE04FW0J221M	ELECTRO 220UF 6.3WV		
C119			C91-0348-05	POLYPRO 0.0027UF J		
C120			CE04FW1C101M	ELECTRO 100UF 16WV		
C121			CE04FW1C331M	ELECTRO 330UF 16WV		
C122			CF92FV1H223J	MF 0.022UF J		
C123		＊	CF92FV1H272J	MF 2700PF J		
C124			CF92FV1H103J	MF 0.010UF J		
C125-128			CK45FF1H103Z	CERAMIC 0.01UF Z		
C129		＊	CE04FW1V222M	ELECTRO 2200UF 35WV		
C130			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C131			CK45FF1H103Z	CERAMIC 0.01UF Z		
C132			CE04FW1C101M	ELECTRO 100UF 16WV		
C134			CE04FW1H010M	ELECTRO 1UF 50WV		
C137,138			CE04FW1C330M	ELECTRO 33UF 16WV		
C139			CK45F1H473Z	CERAMIC 0.047UF Z		
C140			CE04FW1H010M	ELECTRO 1UF 50WV		
C145			CF92FV1H392J	MF 3900PF J		
PJ1	1B		E11-0135-05	PHONE JACK (HEADPHONE) 3P		
PJ2	2B	＊	E11-0136-05	PHONE JACK (MIC) 2P		
PJ3	1C		E13-0433-05	PHONO JACK (LINE IN/OUT)4P		
L1 ,2			L40-6825-29	SMALL FIXED INDUCTOR 6.8MH,J		
L3 ,4			L39-0312-05	VARIABLE INDUCTOR 22MH		
L5			L32-0285-05	BIAS OSCILATING COIL		

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R61 ,62			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R161			RS14GB3A220J	FL-PROOF RS 22 J 3A		
R162			RS14GB3A561J	FL-PROOF RS 560 J 3A		
R180			R92-0209-05	FUSE-RESIST 22 J 2E	KPXTE	
R212			RS14GB3A390J	FL-PROOF RS 39 J 3A		
R215			RD14GB2E5R6J	FL-PROOF RD 5.6 J 2E		
R216			RS14GB3A121J	FL-PROOF RS 120 J 3A		
R217			RS14GB3A101J	FL-PROOF RS 100 J 3A		
R229			RS14GB3D560J	FL-PROOF RS 56 J 3D		
R230			RS14GB3A821J	FL-PROOF RS 820 J 3A		
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	UMUEX	
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	TE	
R232,233		*	RS14GB3D3R9J	FL-PROOF RS 3.9 J 3D	KP	
VR1	1C		R06-4059-05	POTENTIOMETER(REC LEVEL) 50KX2		
VR2	1C	*	R01-5045-05	POTENTIOMETER(BALANCE) 200K		
VR3 ,4			R12-3313-05	TRIM POT. (P.B.LEVEL ADJ.)20K		
VR5 ,6			R12-4306-05	TRIM POT. (METER ADJ.) 50K		
VR7 ,8			R12-3313-05	TRIM POT. (REC LEVEL ADJ.)20K		
VR9 ,10			R12-5310-05	TRIM POT. (BIAS ADJ.) 200K		
S1	1B,1C	*	S42-2105-05	MULTIPLE PUSH SW. (DOLBY)2KEY		
S2	1B		S40-2178-05	PUSH SWITCH (POWER)	UMUE	
S2	1B	*	S40-2182-15	PUSH SWITCH (POWER)	KPXTE	
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		
D6 -8			1S1555	DIODE		
D6 -8			1S2076	DIODE		
D10			1S1555	DIODE		
D10			1S2076	DIODE		
D30 ,31			1S1555	DIODE		
D30 ,31			1S2076	DIODE		
D32 -35			GP10D-5007L	DIODE		
D36			RD15E(B3)	ZENER DIODE		
IC1			UPC1228H	IC (PB.EQ.AMP)		
IC2 ,3			AN6882	IC (METER DRIVER)		
IC4			UPC78M15H	IC (REGULATOR)		
Q1 -6			2SC1845(F,E)	TRANSISTOR (MIC,HEAD SW.)		
Q1 ,2			2SC1980(S,T)	TRANSISTOR (MIC AMP)		
Q3 -6			2SC1845(F,E)	TRANSISTOR (HEAD SW.)		
Q7 -12			2SC1685(R,S)	TRANSISTOR (MUTING)		
Q7 -12			2SC945(A)(Q,P)	TRANSISTOR (MUTING)		
Q13 ,14			2SC2878	TRANSISTOR (LINE MUTE) A,B		
Q15 -18			2SC1685(R,S)	TRANSISTOR (H.P.AMP,REC MUTE)		
Q15 -18			2SC945(A)(Q,P)	TRANSISTOR (H.P.AMP,REC MUTE)		
Q19 ,20			2SC1845(F,E)	TRANSISTOR (REC AMP)		
Q19 ,20			2SC1980(S,T)	TRANSISTOR (REC AMP)		
Q21 -24			2SC1685(R,S)	TRANSISTOR (REC EQ.SW.)		
Q21 -24			2SC945(A)(Q,P)	TRANSISTOR (REC EQ.SW.)		
Q51			2SD863(E,F)	TRANSISTOR (REGULATOR)		
Q52 -54			2SC1685(R,S)	TRANSISTOR (DPSS AMP)		
Q52 -54			2SC945(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q55			2SA1127NC(R,S)	TRANSISTOR (DPSS AMP)		
Q55			2SA733(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q56			2SC1685(R,S)	TRANSISTOR (R/P CONTROL)		
Q56			2SC945(A)(Q,P)	TRANSISTOR (R/P CONTROL)		

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Q57			2SA992(F,E)	TRANSISTOR (R/P CONTROL)		
Q58 -63			2SA1127NC(R,S)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q58 -63			2SA733(A)(Q,P)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q64 -67			2SC1685(R,S)	TRANSISTOR (TAPE SELECTOR)		
Q64 -67			2SC945(A)(Q,P)	TRANSISTOR (TAPE SELECTOR)		
Q68			2SD863(E,F)	TRANSISTOR (BIAS OSC)		
Q69 -71			2SC1741(Q,R)	TRANSISTOR (BIAS SELECTOR)		
Q69 -71			2SD467	TRANSISTOR (BIAS SELECTOR) B,C		
Q72			2SC1685(R,S)	TRANSISTOR (BIAS SW.)		
Q72			2SC945(A)(Q,P)	TRANSISTOR (BIAS SW.)		
Q73			2SD882(Q,P,E)	TRANSISTOR (REGULATOR)		
Q74			2SC1685(R,S)	TRANSISTOR (REGULATOR)		
Q74			2SC945(A)(Q,P)	TRANSISTOR (REGULATOR)		
Q75			2SC2167	TRANSISTOR (REGULATOR) O,Y,G		
R/P AMP UNIT (X28-1630-12)						
D4	2A		B30-0780-05	LED DOLBY-B SLP-275B-50		
D5	2B		B30-0781-05	LED DOLBY-C SLP-475B-50		
D13 -15	2B		B30-0495-05	LED N/C/M SLP-175B-50		
D16 -18	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D19 -22	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
D23 -25	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D26 -29	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
PL1	2A		B30-0374-05	LAMP 12V 110MA		
C1 ,2			CK45FB1H391K	CERAMIC 390PF K		
C3 ,4			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C5 ,6			CK45FB1H102K	CERAMIC 0.001UF K		
C7 ,8			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C9 ,10			CE04FW1C100M	ELECTRO 10UF 16WV		
C11 ,12			CF92FV1H122J	MF 1200PF J		
C13 ,14			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C15 ,16			CC45FSL1H391J	CERAMIC 390PF J		
C17 ,18			CE04FW1A101M	ELECTRO 100UF 10WV		
C19 ,20			CF92FV1H822J	MF 8200PF J		
C21 ,22			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			CF92FV1H183J	MF 0.018UF J		
C25 ,26			CE04FW1HOR1M	ELECTRO 0.1UF 50WV		
C27 ,28			CE04FW1H010M	ELECTRO 1UF 50WV		
C29 ,30			CE04FW1C470M	ELECTRO 47UF 16WV		
C31 ,32			CE04FW1HR22M	ELECTRO 0.22UF 50WV		
C33 ,34			CF92FV1H562J	MF 5600PF J		
C35 ,36			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C37 ,38			CF92FV1H153J	MF 0.015UF J		
C39 ,40			CE04FW1C100M	ELECTRO 10UF 16WV		
C41 ,42			CF92FV1H153J	MF 0.015UF J		
C43 ,44			CF92FV1H393J	MF 0.039UF J		
C45 ,46			CF92FV1H123J	MF 0.012UF J		
C47 ,48			CF92FV1H563J	MF 0.056UF J		
C49 ,50			CE04FW1C100M	ELECTRO 10UF 16WV		
C51 ,52			CC45FSL1H271J	CERAMIC 270PF J		
C55 ,56			CC45FSL1H151J	CERAMIC 150PF J		
C57 ,58			CC45FSL1H101J	CERAMIC 100PF J		
C59 ,60			CE04JW1C100M	ELECTRO 10UF 16WV		
C101			CE04FW1C470M	ELECTRO 47UF 16WV		
C102			CK45FF1H103Z	CERAMIC 0.01UF Z		

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C103			CE04FW1C470M	ELECTRO 47UF 16WV		
C104			CE04FW1H0R1M	ELECTRO 0.1UF 50WV		
C106			CE04FW1C101M	ELECTRO 100UF 16WV		
C107			CE04FW1C100M	ELECTRO 10UF 16WV		
C108			CE04FW1C101M	ELECTRO 100UF 16WV		
C109			CF92FV1H102J	MF 1000PF J		
C110			CF92FV1H333J	MF 0.033UF J		
C111			CE04FW1H010M	ELECTRO 1UF 50WV		
C112			CC45FSL1H330J	CERAMIC 33PF J		
C113			CE04FW1C330M	ELECTRO 33UF 16WV		
C114			CE04FW1H010M	ELECTRO 1UF 50WV		
C115			CF92FV1H683J	MF 0.068UF J		
C116			CE04JW1C4R7M	ELECTRO 4.7UF 16WV		
C117			CE04FW1C101M	ELECTRO 100UF 16WV		
C118			CE04FW0J221M	ELECTRO 220UF 6.3WV		
C119			C91-0348-05	POLYPRO 0.0027UF J		
C120			CE04FW1C101M	ELECTRO 100UF 16WV		
C121			CE04FW1C331M	ELECTRO 330UF 16WV		
C122			CF92FV1H223J	MF 0.022UF J		
C123			CF92FV1H272J	MF 2700PF J		
C124			CF92FV1H103J	MF 0.010UF J		
C125-128			CK45FF1H103Z	CERAMIC 0.01UF Z		
C129			CE04FW1V222M	ELECTRO 2200UF 35WV		
C130			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C131			CK45FF1H103Z	CERAMIC 0.01UF Z		
C132			CE04FW1C101M	ELECTRO 100UF 16WV		
C134			CE04FW1H010M	ELECTRO 1UF 50WV		
C137,138			CE04FW1C330M	ELECTRO 33UF 16WV		
C139			CK45F1H473Z	CERAMIC 0.047UF Z		
C140			CE04FW1H010M	ELECTRO 1UF 50WV		
C145			CF92FV1H392J	MF 3900PF J		
C147,148			CE04FW1C100M	ELECTRO 10UF 16WV		
PJ1	1B		E11-0135-05	PHONE JACK (HEADPHONE) 3P		
PJ2	2B		E11-0136-05	PHONE JACK (MIC) 2P		
PJ3	1C		E13-0433-05	PHONO JACK (LINE IN/OUT) 4P		
L1 ,2			L40-6825-29	SMALL FIXED INDUCTOR 6.8MH,J		
L3 ,4			L39-0312-05	VARIABLE INDUCTOR 22MH		
L5			L32-0285-05	BIAS OSCILATING COIL		
R61 ,62			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R161			RS14GB3A220J	FL-PROOF RS 22 J 3A		
R162			RS14GB3A561J	FL-PROOF RS 560 J 3A		
R180			R92-0209-05	FUSE-RESIST 22 J 2E	KPXTE	
R212			RS14GB3A390J	FL-PROOF RS 39 J 3A		
R215			RD14GB2E5R6J	FL-PROOF RD 5.6 J 2E		
R216			RS14GB3A121J	FL-PROOF RS 120 J 3A		
R217			RS14GB3A101J	FL-PROOF RS 100 J 3A		
R229			RS14GB3D560J	FL-PROOF RS 56 J 3D		
R230			RS14GB3A821J	FL-PROOF RS 820 J 3A		
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	UMUEX	
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	TE	
R232,233			RS14GB3D3R9J	FL-PROOF RS 3.9 J 3D	KP	
VR1	1C		R06-4059-05	POTENTIOMETER(REC LEVEL) 50KX2		
VR2	1C		R01-5045-05	POTENTIOMETER(BALANCE) 200K		

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VR3 ,4			R12-3313-05	TRIM POT. (P.B.LEVEL ADJ.)20K		
VR5 ,6			R12-4306-05	TRIM POT. (METER ADJ.) 50K		
VR7 ,8			R12-3313-05	TRIM POT. (REC LEVEL ADJ.)20K		
VR9 ,10			R12-5310-05	TRIM POT. (BIAS ADJ.) 200K		
S1	1B,1C		S42-2105-05	MULTIPLE PUSH SW. (DOLBY)2KEY		
S2	1B		S40-2178-05	PUSH SWITCH (POWER)	UMUE	
S2	1B		S40-2182-15	PUSH SWITCH (POWER)	KPXTE	
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		
D6 -8			1S1555	DIODE		
D6 -8			1S2076	DIODE		
D10			1S1555	DIODE		
D10			1S2076	DIODE		
D30 ,31			1S1555	DIODE		
D30 ,31			1S2076	DIODE		
D32 -35			GP10D-5007L	DIODE		
D36			RD15E(B3)	ZENER DIODE		
IC1			UPC1228H	IC (PB.EQ.AMP)		
IC2 ,3			AN6882	IC (METER DRIVER)		
IC4			UPC78M15H	IC (REGULATOR)		
Q1 -6			2SC1845(F,E)	TRANSISTOR (MIC,HEAD SW.)		
Q1 ,2			2SC1980(S,T)	TRANSISTOR (MIC AMP)		
Q3 -6			2SC1845(F,E)	TRANSISTOR (HEAD SW.)		
Q7 -12			2SC1685(R,S)	TRANSISTOR (MUTING)		
Q7 -12			2SC945(A)(Q,P)	TRANSISTOR (MUTING)		
Q13 ,14			2SC2878	TRANSISTOR (LINE MUTE) A,B		
Q15 -18			2SC1685(R,S)	TRANSISTOR (H.P.AMP,REC MUTE)		
Q15 -18			2SC945(A)(Q,P)	TRANSISTOR (H.P.AMP.REC MUTE)		
Q19 ,20			2SC1845(F,E)	TRANSISTOR (REC AMP)		
Q19 ,20			2SC1980(S,T)	TRANSISTOR (REC AMP)		
Q21 -24			2SC1685(R,S)	TRANSISTOR (REC EQ.SW.)		
Q21 -24			2SC945(A)(Q,P)	TRANSISTOR (REC EQ.SW.)		
Q51			2SD863(E,F)	TRANSISTOR (REGULATOR)		
Q52 -54			2SC1685(R,S)	TRANSISTOR (DPSS AMP)		
Q52 -54			2SC945(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q55			2SA1127NC(R,S)	TRANSISTOR (DPSS AMP)		
Q55			2SA733(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q56			2SC1685(R,S)	TRANSISTOR (R/P CONTROL)		
Q56			2SC945(A)(Q,P)	TRANSISTOR (R/P CONTROL)		
Q57			2SA992(F,E)	TRANSISTOR (R/P CONTROL)		
Q58 -63			2SA1127NC(R,S)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q58 -63			2SA733(A)(Q,P)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q64 -67			2SC1685(R,S)	TRANSISTOR (TAPE SELECTOR)		
Q64 -67			2SC945(A)(Q,P)	TRANSISTOR (TAPE SELECTOR)		
Q68			2SD863(E,F)	TRANSISTOR (BIAS OSC)		
Q69 -71			2SC1741(Q,R)	TRANSISTOR (BIAS SELECTOR)		
Q69 -71			2SD467	TRANSISTOR (BIAS SELECTOR) B,C		
Q72			2SC1685(R,S)	TRANSISTOR (BIAS SW.)		
Q72			2SC945(A)(Q,P)	TRANSISTOR (BIAS SW.)		
Q73			2SD882(Q,P,E)	TRANSISTOR (REGULATOR)		
Q74			2SC1685(R,S)	TRANSISTOR (REGULATOR)		
Q74			2SC945(A)(Q,P)	TRANSISTOR (REGULATOR)		
Q75			2SC2167	TRANSISTOR (REGULATOR) O,Y,G		
Q77 ,78			2SC1845(F,E)	TRANSISTOR		

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CONTROL UNIT (X29-1480-12)						
D8	2B		B30-0322-05	LED (FWD,REV) SLP-253B		
D9 ,10	2B		B30-0357-05	LED (REC/ARM,FF) SLP-153B		
D11 ,12	2B		B30-0438-05	LED (B.S/I.S) SLP-453B		
D13	2B		B30-0357-05	LED (REW) SLP-153B		
C1			CC45FSL1H820J	CERAMIC 82PF J		
C2			CE04FW1H010M	ELECTRO 1UF 50WV		
C3			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C4			CF92FV1H103J	MF 0.010UF J		
C5			CE04FW1H010M	ELECTRO 1UF 50WV		
C6			CF92FV1H103J	MF 0.010UF J		
C7 ,8			CE04FW1C100M	ELECTRO 10UF 16WV		
C9 ,10			CK45FF1H103Z	CERAMIC 0.01UF Z		
C11			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C12			CK45FF1H103Z	CERAMIC 0.01UF Z		
C17 ,18			CK45FF1H103Z	CERAMIC 0.01UF Z		
JK2	1B		E11-0110-05	MINIATURE P.JACK (SYNCHRO)3P		
CP1		*	R90-0252-05	MULTI-COMP 3.3KX4		
CP2		*	R90-0253-05	MULTI-COMP		
CP3		*	R90-0251-05	MULTI-COMP 33KX12		
R26			RS14GB3A391J	FL-PROOF RS 390 J 3A		
R56			RS14GB3A471J	FL-PROOF RS 470 J 3A		
R57			RS14GB3A330J	FL-PROOF RS 33 J 3A		
S1 -9	2B		S40-1068-05	PUSH SWITCH (FUNCTION KEY)		
S10 ,11	2B		S31-2062-05	SLIDE SW.(DIRECTION,TIMER SW.)		
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		
D4 ,5		*	DSM1A1	DIODE		
D4 ,5			W06B	DIODE		
D6 ,7			1S1555	DIODE		
D6 ,7			1S2076	DIODE		
IC1		*	MB8841HM-1190K	IC (MICRO PROCCESOR)		
Q1 -4			2SC1685(R,S)	TRANSISTOR (RESET,ON/OFF,PLAY)		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR (RESET,ON/OFF,PLAY)		
Q5			2SD882(Q,P,E)	TRANSISTOR (REEL MOTOR DRIVER)		
Q6 ,7			2SB561	TRANSISTOR(REEL MOT.DRIVER)B,C		
Q8 ,9			2SD467	TRANSISTOR(REEL MOT.DRIVER)B,C		
Q10 -12			2SC1685(R,S)	TRANSISTOR(REEL,ASSIST MOT.DVR		
Q10 -12			2SC945(A)(Q,P)	TRANSISTOR(REEL,ASSIST MOT.DVR		
Q13			2SD882(Q,P,E)	TRANSISTOR(ASSIST MOTOR DRIVER		
Q14 ,15			2SB561	TRANSISTOR (ASSIST MOT.DVR)B,C		
Q16 ,17			2SD467	TRANSISTOR (ASSIST MOT.DVR)B,C		
Q18 -23			2SC1685(R,S)	TRANSISTOR (QUICK REV.DET.)		
Q18 -23			2SC945(A)(Q,P)	TRANSISTOR (QUICK REV.DET.)		
DOLBY UNIT (X30-1100-11)						
C1 ,2			CE04FW1H010M	ELECTRO 1UF 50WV		
C3 ,4			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C5 ,6			CE04FW1H010M	ELECTRO 1UF 50WV		
C7 ,8			CE04FW1A221M	ELECTRO 220UF 10WV		
C9 ,10			CF92FV1H333J	MF 0.033UF J		
C11 ,12			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		

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C13 ,14			CF92FV1H103J	MF	0.010UF	J		
C15 ,16			CF92FV1H183J	MF	0.018UF	J		
C17 ,18			CE04FW1HR22M	ELECTRO	0.22UF	50WV		
C19 -22			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C23 ,24		*	CE04GW1HR68M	LL-ELEC	0.68UF	50WV		
C25 ,26			CE04FW1C100M	ELECTRO	10UF	16WV		
C27 ,28			CC45FSL1H390J	CERAMIC	39PF	J		
C29 ,30			CF92FV1H562J	MF	5600PF	J		
C31 ,32			CF92FV1H472J	MF	4700PF	J		
C33 ,34			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C35 ,36		*	CF92FV1H823J	MF	0.082UF	J		
C37 ,38			CF92FV1H154J	MF	0.15UF	J		
C39 ,40			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C41 ,42			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C43 ,44			CE04FW1C100M	ELECTRO	10UF	16WV		
C45 ,46			CF92FV1H472J	MF	4700PF	J		
L1 ,2		*	L79-0188-05	LC FILTER				
L3 ,4		*	L39-0106-05	TRAP COIL	20KHZ			
IC1 ,2		*	HA12058	IC (DOLBY) B,C				
Q1 ,2			2SC1845(F,E)	TRANSISTOR				
Q1 ,2			2SC1980(S,T)	TRANSISTOR				
DOLBY UNIT (X30-1160-00)								
C1 ,2			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C3 ,4			CE04FW1C100M	ELECTRO	10UF	16WV		
C7 -10			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C11 ,12			CE04FW1C100M	ELECTRO	10UF	16WV		
C13 ,14			CF92FV1H103J	MF	0.010UF	J		
C15 ,16			CF92FV1H153J	MF	0.015UF	J		
C17 ,18			CF92FV1H103J	MF	0.010UF	J		
C19 ,20			CE04FW1C101M	ELECTRO	100UF	16WV		
C21 ,22			CE04FW1C100M	ELECTRO	10UF	16WV		
C23 ,24			CF92FV1H124J	MF	0.12UF	J		
C25 ,26			CE04FW1H010M	ELECTRO	1UF	50WV		
C27 ,28			CF92FV1H683J	MF	0.068UF	J		
C29 ,30			CF92FV1H184J	MF	0.18UF	J		
C31 ,32			CF92FV1H273J	MF	0.027UF	J		
C33 ,34			CE04FW1H010M	ELECTRO	1UF	50WV		
C35 ,36			CF92FV1H683J	MF	0.068UF	J		
C37 ,38			CF92FV1H184J	MF	0.18UF	J		
C39 ,40			CF92FV1H274J	MF	0.27UF	J		
C41 ,42			CF92FV1H124J	MF	0.12UF	J		
C43 ,44			CE04FW1C100M	ELECTRO	10UF	16WV		
C49 ,50			CE04FW1C220M	ELECTRO	22UF	16WV		
C51 ,52			CK45FB1H471K	CERAMIC	470PF	K		
C53 ,54			CK45FB1H471K	CERAMIC	470PF	K	UMUEX	
C53 ,54			CK45FB1H471K	CERAMIC	470PF	K	TE	
C55 ,56			CE04FW1C220M	ELECTRO	22UF	16WV	UMUEX	
C55 ,56			CE04FW1C220M	ELECTRO	22UF	16WV	TE	
C59 ,60			CE04FW1C220M	ELECTRO	22UF	16WV	UMUEX	
C59 ,60			CE04FW1C220M	ELECTRO	22UF	16WV	TE	
L1 ,2		*	L79-0192-05	LC FILTER				
L3 ,4			L39-0108-05	TRAP COIL				

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IC1			CX20027	IC (DOLBY B-C) NOT COMPATIBLE		
IC1		*	CX20078L	IC (DOLBY B-C) NOT COMPATIBLE	UMUEX	
IC1		*	CX20078L	IC (DOLBY B-C) NOT COMPATIBLE	TE	
IC2			CX20028	IC (DOLBY B-C) NOT COMPATIBLE		
IC2		*	CX20077L	IC (DOLBY B-C) NOT COMPATIBLE	UMUEX	
IC2		*	CX20077L	IC (DOLBY B-C)	TE	
Q1 ,2			2SC1845(F,E)	TRANSISTOR		
Q1 ,2			2SC1980(S,T)	TRANSISTOR		
CASSETTE MECHANISM ASS'Y (D40-0288-05)						
1	3C	*	A10-0701-08	CHASSIS ASSY		
2	3C	*	A11-0119-08	SUB CHASSIS		
3	6B,6C	*	D01-0051-08	FLYWHEEL ASSY		
4	3A,4C	*	D03-0226-08	REEL(TAKE-UP,SUPPLY)		
5	3A	*	D10-1187-08	LEVER(CASSETTE HOLDER RELEASE)		
6	4C	*	D10-1188-08	LEVER(DPSS SW LEVER)		
7	3B	*	D10-1189-08	LEVER(LEAF SW PROTECT AT EJECT		
8	3A	*	D10-1190-08	LEVER ASSY(PROHIBIT EJECT ETC)		
9	3B	*	D10-1191-08	LEVER ASSY		
10	4B	*	D10-1192-08	SLIDER(P ROLLER,HEAD UP/DOWN)		
11	4B	*	D10-1193-08	SLIDER(P ROLLER,HEAD UP/DOWN)		
12	3A	*	D10-1194-08	SLIDER(CASSETTE HOLDER LOCK)		
13	6A	*	D10-1195-08	SLIDER(FWD/REV HEAD SELECT)		
14	6A	*	D12-0096-08	CAM (FWD/REV SELECT)		
15	3A	*	D13-0135-08	GEAR (ASSIST MOTOR)		
16	3A	*	D13-0136-08	GEAR (ASSIST MOTOR)		
17	4C	*	D13-0137-08	GEAR (REEL MOTOR)		
18	5B	*	D13-0138-08	GEAR (FWD/REV MECHANISM DR)		
19	5B	*	D13-0139-08	GEAR (FWD/REV MECHANISM DR)		
20	4B	*	D14-0091-08	PINCH ROLLER ASSY(REV)		
21	4B	*	D14-0092-08	PINCH ROLLER ASSY(FWD)		
22	5B	*	D15-0208-08	PULLEY (RESTORATION)		
23	6C	*	D16-0092-08	BELT (FLYWHEEL DRIVE)		
24	5A,5B	*	D23-0180-08	BEARING (FLYWHEEL TO CHASSIS)		
25	4A	*	D40-0298-08	MECHANISM (HEAD ROTATOR)		
26	4B	*	D90-0103-04	STEEL BALL(HEAD BLOCK)		
27	3B	*	F07-0443-08	COVER (LEAF SW PROTECTION)		
28	6B,6C	*	G01-1268-08	SPRING(FLYWHEEL SHAFT)		
29	3A	*	G01-1414-08	SPRING(REEL TENSION)		
30	4A	*	G01-1415-08	SPRING(R/P HEAD SELECT)		
31	3A	*	G01-1416-08	SPRING(SLIDER)		
32	4C	*	G01-1417-08	SPRING(NO.6 LEVER)		
33	4A	*	G01-1418-08	SPRING(TAPE GUIDE)		
34	4B	*	G01-1419-08	SPRING(TAPE GUIDE)		
35	4B	*	G01-1420-08	SPRING(PINCH ROLLER(REV))		
36	4B	*	G01-1421-08	SPRING(PINCH ROLLER(FWD))		
37	5B	*	G01-1422-08	SPRING(RESTORATION PULLEY)		
38	5B	*	G01-1423-08	SPRING(L)		
39	5A	*	G01-1424-08	SPRING(R)		
40	3B	*	G01-1425-08	SPRING(NO.8LEVER ASSY RESTORE)		
41	4B	*	G02-0128-08	SPRING(NO.8 LEVER ASSY RETAIN)		
42	3A	*	G02-0129-08	SPRING(CASSETTE STABILIZER)		
43	5B	*	G11-1059-08	CUSHION(MOTOR)		

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44	5B	*	J19-0839-08	HOLDER(CASSETTE TOP STABILIZE)		
45	6B	*	J21-3365-08	MOUNTING HARDWARE		
46	6B	*	J21-3366-08	MOUNTING HARDWARE(MOTOR)		
47	6A	*	J25-4288-08	PC BOARD (NO COMPONENTS)		
48	4C	*	J31-0212-08	COLLAR (REEL)		
49	4A	*	J42-0104-08	BUSHING (R/P HEAD BLOCK)		
50	3A,3B	*	J42-0105-08	BUSHING (ASSIST MOTOR GEAR)		
51	4B,5C	*	J42-0110-08	BUSHING (PINCH ROLLER)		
52	4A	*	J42-0111-08	BUSHING (PINCH ROLLER)		
53	5C	*	J60-0006-08	STRING (NO.22 PULLEY)		
54	4A	*	J90-0126-08	GUIDE (TAPE GUIDE WITH SENSOR)		
55	4B	*	J90-0127-08	GUIDE (TAPE GUIDE W/O SENSOR)		
56	4A	*	N09-1257-08	SCREW (M1.4X6 R/P HEAD BLOCK)		
57	3A,6C	*	N09-1316-08	SCREW (BI-TAP /2.6X6)		
58	5B,6B	*	N09-1317-08	SCREW (BI-TAP /2.6X8)		
59	6C	*	N09-1318-08	SCREW (BI-TAP /2.6X24)		
61	4A	*	N09-1320-08	SCREW (M1.7X6)		
62	4A	*	N14-0135-08	NUT (TAPE GUIDE)		
63	6A	*	N17-1026-46	TOOTHED WASHER (PC BOARD)		
64	3B	*	N19-0350-08	WASHER (REEL)		
65	6B,6C	*	N19-0351-08	WASHER (FLYWHEEL SHAFT)		
66	6B	*	N19-0394-08	WASHER (FLYWHEEL)		
67	4C	*	N29-0060-08	RETAINING RING (REEL)		
73	6A	*	S31-1008-08	SLIDE SW(HEAD POSI/DIR DETECT)		
74	5B	*	S46-1037-08	LEAF SW (CASSETTE DETECTION)		
75	4A	*	T34-0305-08	HEAD ASSY(R/P ERASE WITH BASE)		
76	5B	*	T42-0032-08	DC MOTOR (ASSIST,REEL)		
77	6C	*	T42-0033-08	MOTOR ASSY(CAPSTAN DRIVE)		
78	6A	*	TLN103	PHOTO DIODE(QUICK REVERSE DET)		
79	4A	*	TPS603	PHOTO TR (QUICK REVERSE DET)		

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			KX-72RB (Black version)			
1	1B		A01-0691-02	METALLIC CABINET		
2	2B	*	A20-3805-02	PANEL	KPUM	
2	2B	*	A20-3805-02	PANEL	UEXE	
2	2B	*	A20-3806-02	PANEL	T	
3	2B	*	A21-0464-03	DRESSING PANEL ASSY		
4	2A		A53-0099-03	CASSETTE HOLDER ASSY		
5	2A	*	A53-0511-04	CASSETTE LID ASSY		
6	2A		B03-1019-04	DRESSING PLATE		
7	1B		B03-1021-03	DRESSING PLATE		
8	2A	*	B03-1157-03	DRESSING PLATE		
9	2B		B20-0557-04	SCALE		
10	2A		B30-0449-05	LED		
11	1B		B35-0025-15	TAPE COUNTER		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-			B50-4926-00	INSTRUCTION MANUAL(E)	KPUM	
-			B50-4926-00	INSTRUCTION MANUAL(E)	UEX	
-			B50-4927-00	INSTRUCTION MANUAL(F)	PMXE	
-			B50-4928-00	INSTRUCTION MANUAL(SP)	M	
-			B50-4929-00	INSTRUCTION MANUAL(E)	T	
-			B50-4992-00	INSTRUCTION MANUAL(G,SW,D,I)	E	
-			B58-0223-04	CAUTION CARD	U	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD	UE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
-			B59-0094-00	SUB-INSTRUCTION MANUAL	KPUM	
-			B59-0094-00	SUB-INSTRUCTION MANUAL	UEXT	
-			B59-0095-00	SUB-INSTRUCTION MANUAL	PMXE	
-			B59-0096-00	SUB-INSTRUCTION MANUAL	M	
-			B59-0097-00	SUB-INSTRUCTION MANUAL	E	
12	1B		D10-1179-04	ARM		
13	1C		D16-0091-04	BELT		
14	1B		D39-0164-05	DAMPER		
15	1B		D40-0288-05	CASSETTE MECHANISM ASSY		
16	1B		E30-0505-05	AUDIO CORD		
⚠ 17	1C		E30-0181-05	AC POWER CORD	KP	
⚠ 17	1C		E30-0459-05	AC POWER CORD	E	
⚠ 17	1C		E30-0587-15	AC POWER CORD	T	
⚠ 17	1C		E30-1305-15	AC POWER CORD (INLET)	UMUE	
⚠ 17	1C		E30-1342-05	AC POWER CORD (INLET)	X	
⚠ 17B	1C		E03-0102-15	AC INLET	UMUEX	
18	2A		F09-0052-14	HEAD PROTECTOR		
19	1B		G01-1389-04	TORSION COIL SPRING		
20	1A		G01-1401-04	COMPRESSION SPRING		
21	2A		G09-0224-04	SPRING		
22	2B		G11-0429-04	INSULATOR ASSY		

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-		*	H01-5033-04	ITEM CARTON CASE	KPUM	
-		*	H01-5033-04	ITEM CARTON CASE	UEXE	
-		*	H01-5034-04	ITEM CARTON CASE	T	
-			H10-1693-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-0417-04	PROTECTION COVER	M	
-			H25-0078-04	PROTECTION BAG		
-			H25-0215-04	PROTECTION BAG	KPUUE	
-			H25-0215-04	PROTECTION BAG	XTE	
-			H40-0005-04	RUST PREVENTING PAPER	M	
23	2C		J02-0126-05	FOOT		
⚠ 24	1C		J42-0083-05	POWER CORD BUSHING	KPTE	
25	2A		K27-0896-04	KNOB (BUTTON) DOLBY		
27	2A	*	K29-1518-04	KNOB (REC BALANCE)		
28	2A,2B		K29-1762-04	KNOB (STOP,PLAY,PAUSE)		
29	2A,2B		K29-1763-04	KNOB (FF,REW)		
30	2B		K29-1764-04	KNOB (REC)		
31	2A		K29-1762-04	KNOB (B.S/I.S)		
32	1A		K29-1760-04	KNOB ASSY (EJECT)		
33	2A	*	K29-1517-04	KNOB (RECORD LEVEL)		
34	2A		K29-1446-04	KNOB ASSY (POWER)		
⚠ 35	1B		L01-3211-05	POWER TRANSFORMER	KP	
⚠ 35	1B		L01-3212-05	POWER TRANSFORMER	TE	
⚠ 35	1B		L01-3217-05	POWER TRANSFORMER	UMUEX	
36	1C		N09-0292-05	STEPPED SCREW 3X19(GND)		
38	1B,1C		N09-0831-04	TAPTITE SCREW M4X6(TRANSFORMER		
39	1B,1C		N09-1250-05	TAPTITE SCREW 3X6(MECHANISM)		
40	1B,1C		N29-0216-05	RIVET		
41	1B		W01-0301-05	CLEANING STICK		
R/P AMP UNIT (X28-1580-12)						
D4	2A	*	B30-0780-05	LED DOLBY-B SLP-275B-50		
D5	2B	*	B30-0781-05	LED DOLBY-C SLP-475B-50		
D13 -15	2B		B30-0495-05	LED N/C/M SLP-175B-50		
D16 -18	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D19 -22	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
D23 -25	2C		B30-0379-05	LED +DB(RED) SLP-151B-50		
D26 -29	2B		B30-0378-05	LED -DB(GRN) SLP-251B-50		
PL1	2A		B30-0374-05	LAMP		
C1 ,2		*	CK45FB1H391K	CERAMIC 390PF K		
C3 ,4			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C5 ,6			CK45FB1H102K	CERAMIC 0.001UF K		
C7 ,8			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C9 ,10			CE04FW1C100M	ELECTRO 10UF 16WV		
C11 ,12			CF92FV1H122J	MF 1200PF J		
C13 ,14			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C15 ,16			CC45FSL1H391J	CERAMIC 390PF J		
C17 ,18			CE04FW1A101M	ELECTRO 100UF 10WV		
C19 ,20		*	CF92FV1H822J	MF 8200PF J		
C21 ,22			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			CF92FV1H183J	MF 0.018UF J		
C25 ,26			CE04FW1H0R1M	ELECTRO 0.1UF 50WV		
C27 ,28			CE04FW1H010M	ELECTRO 1UF 50WV		
C29 ,30			CE04FW1C470M	ELECTRO 47UF 16WV		

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C31 ,32			CE04FW1HR22M	ELECTRO 0.22UF 50WV		
C33 ,34			CF92FV1H562J	MF 5600PF J		
C35 ,36			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C37 ,38			CF92FV1H153J	MF 0.015UF J		
C39 ,40			CE04FW1C100M	ELECTRO 10UF 16WV		
C41 ,42			CF92FV1H153J	MF 0.015UF J		
C43 ,44			CF92FV1H393J	MF 0.039UF J		
C45 ,46			CF92FV1H123J	MF 0.012UF J		
C47 ,48			CF92FV1H563J	MF 0.056UF J		
C49 ,50			CE04FW1C100M	ELECTRO 10UF 16WV		
C51 ,52			CC45FSL1H271J	CERAMIC 270PF J		
C55 ,56			CC45FSL1H151J	CERAMIC 150PF J		
C57 ,58			CC45FSL1H101J	CERAMIC 100PF J		
C59 ,60		*	CE04JW1C100M	ELECTRO 10UF 16WV		
C101			CE04FW1C470M	ELECTRO 47UF 16WV		
C102			CK45FF1H103Z	CERAMIC 0.01UF Z		
C103			CE04FW1C470M	ELECTRO 47UF 16WV		
C104			CE04FW1H0R1M	ELECTRO 0.1UF 50WV		
C105			CE04FW1C470M	ELECTRO 47UF 16WV		
C106			CE04FW1C101M	ELECTRO 100UF 16WV		
C107			CE04FW1C100M	ELECTRO 10UF 16WV		
C108			CE04FW1C470M	ELECTRO 47UF 16WV		
C109			CF92FV1H102J	MF 1000PF J		
C110			CF92FV1H333J	MF 0.033UF J		
C111			CE04FW1H010M	ELECTRO 1UF 50WV		
C112			CC45FSL1H330J	CERAMIC 33PF J		
C113			CE04FW1C330M	ELECTRO 33UF 16WV		
C114			CE04FW1H010M	ELECTRO 1UF 50WV		
C115			CF92FV1H683J	MF 0.068UF J		
C116		*	CE04JW1C4R7M	ELECTRO 4.7UF 16WV		
C117			CE04FW1C101M	ELECTRO 100UF 16WV		
C118			CE04FW0J221M	ELECTRO 220UF 6.3WV		
C119			C91-0348-05	POLYPRO 0.0027UF J		
C120			CE04FW1C101M	ELECTRO 100UF 16WV		
C121			CE04FW1C331M	ELECTRO 330UF 16WV		
C122			CF92FV1H223J	MF 0.022UF J		
C123		*	CF92FV1H272J	MF 2700PF J		
C124			CF92FV1H103J	MF 0.010UF J		
C125-128			CK45FF1H103Z	CERAMIC 0.01UF Z		
C129		*	CE04FW1V222M	ELECTRO 2200UF 35WV		
C130			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C131			CK45FF1H103Z	CERAMIC 0.01UF Z		
C132			CE04FW1C101M	ELECTRO 100UF 16WV		
C134			CE04FW1H010M	ELECTRO 1UF 50WV		
C137,138			CE04FW1C330M	ELECTRO 33UF 16WV		
C139			CK45F1H473Z	CERAMIC 0.047UF Z		
C140			CE04FW1H010M	ELECTRO 1UF 50WV		
C145			CF92FV1H392J	MF 3900PF J		
PJ1	1B		E11-0135-05	PHONE JACK (HEADPHONE) 3P		
PJ2	2B	*	E11-0136-05	PHONE JACK (MIC) 2P		
PJ3	1C		E13-0433-05	PHONO JACK (LINE IN/OUT) 4P		
L1 ,2			L40-6825-29	SMALL FIXED INDUCTOR 6.8MH,J		
L3 ,4			L39-0312-05	VARIABLE INDUCTOR 22MH		
L5			L32-0285-05	BIAS OSCILATING COIL		

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R61 ,62			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R161			RS14GB3A220J	FL-PROOF RS 22 J 3A		
R162			RS14GB3A561J	FL-PROOF RS 560 J 3A		
R180			R92-0209-05	FUSE-RESIST 22 J 2E	KPXTE	
R212			RS14GB3A390J	FL-PROOF RS 39 J 3A		
R215			RD14GB2E5R6J	FL-PROOF RD 5.6 J 2E		
R216			RS14GB3A121J	FL-PROOF RS 120 J 3A		
R217			RS14GB3A101J	FL-PROOF RS 100 J 3A		
R229			RS14GB3D560J	FL-PROOF RS 56 J 3D		
R230			RS14GB3A821J	FL-PROOF RS 820 J 3A		
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	UMUEX	
R232			RS14GB3D4R7J	FL-PROOF RS 4.7 J 3D	TE	
R232,233		＊	RS14GB3D3R9J	FL-PROOF RS 3.9 J 3D	KP	
VR1	1C		RO6-4059-05	TRIMMING POT. (REC LEVEL) 50KX2		
VR2	1C	＊	RO1-5045-05	TRIMMING POT. (BALANCE) 200K		
VR3 ,4			R12-3313-05	POT. (P.B.LEVEL ADJ.) 20K		
VR5 ,6			R12-4306-05	POT. (METER ADJ.) 50K		
VR7 ,8			R12-3313-05	POT. (REC LEVEL ADJ.) 20K		
VR9 ,10			R12-5310-05	POT. (BIAS ADJ.) 200K		
S1	1B,1C	＊	S42-2105-05	MULTIPLE PUSH SW. (DOLBY) 2KEY		
S2	1B		S40-2178-05	PUSH SWITCH (POWER)	UMUE	
S2	1B	＊	S40-2182-15	PUSH SWITCH (POWER)	KPXTE	
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		
D6 -8			1S1555	DIODE		
D6 -8			1S2076	DIODE		
D10			1S1555	DIODE		
D10			1S2076	DIODE		
D30 ,31			1S1555	DIODE		
D30 ,31			1S2076	DIODE		
D32 -35			GP10D-5007L	DIODE		
D36			RD15E(B3)	ZENER DIODE		
IC1			UPC1228H	IC (PB.EQ.AMP)		
IC2 ,3			AN6882	IC (METER DRIVER)		
IC4			UPC78M15H	IC (GEGULATOR)		
Q1 -6			2SC1845(F,E)	TRANSISTOR (MIC,HEAD SW.)		
Q1 ,2			2SC1980(S,T)	TRANSISTOR (MIC AMP)		
Q3 -6			2SC1845(F,E)	TRANSISTOR (HEAD SW.)		
Q7 -12			2SC1685(R,S)	TRANSISTOR (MUTING)		
Q7 -12			2SC945(A)(Q,P)	TRANSISTOR (MUTING)		
Q13 ,14			2SC2878	TRANSISTOR (LINE MUTE) A,B		
Q15 -18			2SC1685(R,S)	TRANSISTOR (H.P.AMP,REC MUTE)		
Q15 -18			2SC945(A)(Q,P)	TRANSISTOR (H.P.AMP,REC MUTE)		
Q19 ,20			2SC1845(F,E)	TRANSISTOR (REC AMP)		
Q19 ,20			2SC1980(S,T)	TRANSISTOR (REC AMP)		
Q21 -24			2SC1685(R,S)	TRANSISTOR (REC EQ.SW.)		
Q21 -24			2SC945(A)(Q,P)	TRANSISTOR (REC EQ.SW.)		
Q51			2SD863(E,F)	TRANSISTOR (REGULATOR)		
Q52 -54			2SC1685(R,S)	TRANSISTOR (DPSS AMP)		
Q52 -54			2SC945(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q55			2SA1127NC(R,S)	TRANSISTOR (DPSS AMP)		
Q55			2SA733(A)(Q,P)	TRANSISTOR (DPSS AMP)		
Q56			2SC1685(R,S)	TRANSISTOR (R/P CONTROL)		
Q56			2SC945(A)(Q,P)	TRANSISTOR (R/P CONTROL)		

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Q57			2SA992(F,E)	TRANSISTOR (R/P CONTROL)		
Q58 -63			2SA1127NC(R,S)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q58 -63			2SA733(A)(Q,P)	TRANSISTOR (=)LINE/R.M.DRIVER		
Q64 -67			2SC1685(R,S)	TRANSISTOR (TAPE SELECTOR)		
Q64 -67			2SC945(A)(Q,P)	TRANSISTOR (TAPE SELECTOR)		
Q68			2SD863(E,F)	TRANSISTOR (BIAS OSC)		
Q69 -71			2SC1741(Q,R)	TRANSISTOR (BIAS SELECTOR)		
Q69 -71			2SD467	TRANSISTOR (BIAS SELECTOR) B,C		
Q72			2SC1685(R,S)	TRANSISTOR (BIAS SW.)		
Q72			2SC945(A)(Q,P)	TRANSISTOR (BIAS SW.)		
Q73			2SD882(Q,P,E)	TRANSISTOR (REGULATOR)		
Q74			2SC1685(R,S)	TRANSISTOR (REGULATOR)		
Q74			2SC945(A)(Q,P)	TRANSISTOR (REGULATOR)		
Q75			2SC2167	TRANSISTOR (REGULATOR) O,Y,G		
CONTROL UNIT (X29-1480-12)						
D8	2B		B30-0322-05	LED (FWD,REV) SLP-253B		
D9 ,10	2B		B30-0357-05	LED (REC/ARM,FF) SLP-153B		
D11 ,12	2B		B30-0438-05	LED (B.S/I.S) SLP-453B		
D13	2B		B30-0357-05	LED (REW) SLP-153B		
C1			CC45FSL1H820J	CERAMIC 82PF J		
C2			CE04FW1H010M	ELECTRO 1UF 50WV		
C3			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C4			CF92FV1H103J	MF 0.010UF J		
C5			CE04FW1H010M	ELECTRO 1UF 50WV		
C6			CF92FV1H103J	MF 0.010UF J		
C7 ,8			CE04FW1C100M	ELECTRO 10UF 16WV		
C9 ,10			CK45FF1H103Z	CERAMIC 0.01UF Z		
C11			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C12			CK45FF1H103Z	CERAMIC 0.01UF Z		
C17 ,18			CK45FF1H103Z	CERAMIC 0.01UF Z		
JK2	1B		E11-0110-05	MINIATURE P.JACK (SYNCHRO)3P		
CP1		*	R90-0252-05	MULTI-COMP 3.3KX4		
CP2		*	R90-0253-05	MULTI-COMP		
CP3		*	R90-0251-05	MULTI-COMP 33KX12		
R26			RS14GB3A391J	FL-PROOF RS 390 J 3A		
R56			RS14GB3A471J	FL-PROOF RS 470 J 3A		
R57			RS14GB3A330J	FL-PROOF RS 33 J 3A		
S1 -9	2B		S40-1068-05	PUSH SWITCH (FUNCTION KEY)		
S10 ,11	2B		S31-2062-05	SLIDE SW.(DIRECTION,TIMER SW.)		
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		
D4 ,5		*	DSM1A1	DIODE		
D4 ,5			W06B	DIODE		
D6 ,7			1S1555	DIODE		
D6 ,7			1S2076	DIODE		
IC1		*	MB8841HM-1190K	IC (MICRO PROCESOR)		
Q1 -4			2SC1685(R,S)	TRANSISTOR (RESET,ON/OFF,PLAY)		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR (RESET,ON/OFF,PLAY)		
Q5			2SD882(Q,P,E)	TRANSISTOR (REEL MOTOR DRIVER)		
Q6 ,7			2SB561	TRANSISTOR(REEL MOT.DRIVER)B,C		
Q8 ,9			2SD467	TRANSISTOR(REEL MOT.DRIVER)B,C		
Q10 -12			2SC1685(R,S)	TRANSISTOR(REEL,ASSIST MOT.DVR		

E: Scandinavia & Europe **H**:Audio Club **K**: USA **P**: Canada
S: South Africa **T**: England **U**: PX(Far East, Hawaii)
UE: AAFES(Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
Q10 -12			2SC945(A)(Q,P)	TRANSISTOR(REEL,ASSIST MOT.DVR				
Q13			2SD882(Q,P,E)	TRANSISTOR(ASSIST MOTOR DRIVER				
Q14 ,15			2SB561	TRANSISTOR (ASSIST MOT.DVR)B,C				
Q16 ,17			2SD467	TRANSISTOR (ASSIST MOT.DVR)B,C				
Q18 -23			2SC1685(R,S)	TRANSISTOR (QUICK REV.DET.)				
Q18 -23			2SC945(A)(Q,P)	TRANSISTOR (QUICK REV.DET.)				
DOLBY UNIT (X30-1100-11)								
C1 ,2			CE04FW1H010M	ELECTRO	1UF	50WV		
C3 ,4			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C5 ,6			CE04FW1H010M	ELECTRO	1UF	50WV		
C7 ,8			CE04FW1A221M	ELECTRO	220UF	10WV		
C9 ,10			CF92FV1H333J	MF	0.033UF	J		
C11 ,12			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C13 ,14			CF92FV1H103J	MF	0.010UF	J		
C15 ,16			CF92FV1H183J	MF	0.018UF	J		
C17 ,18			CE04FW1HR22M	ELECTRO	0.22UF	50WV		
C19 -22			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C23 ,24		*	CE04GW1HR68M	LL-ELEC	0.68UF	50WV		
C25 ,26			CE04FW1C100M	ELECTRO	10UF	16WV		
C27 ,28			CC45FSL1H390J	CERAMIC	39PF	J		
C29 ,30			CF92FV1H562J	MF	5600PF	J		
C31 ,32			CF92FV1H472J	MF	4700PF	J		
C33 ,34			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C35 ,36		*	CF92FV1H823J	MF	0.082UF	J		
C37 ,38			CF92FV1H154J	MF	0.15UF	J		
C39 ,40			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C41 ,42			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C43 ,44			CE04FW1C100M	ELECTRO	10UF	16WV		
C45 ,46			CF92FV1H472J	MF	4700PF	J		
L1 ,2		*	L79-0188-05	LC FILTER				
L3 ,4		*	L39-0106-05	TRAP COIL	20KHZ			
IC1 ,2		*	HA12058	IC (DOLBY) B,C				
Q1 ,2			2SC1845(F,E)	TRANSISTOR				
Q1 ,2			2SC1980(S,T)	TRANSISTOR				

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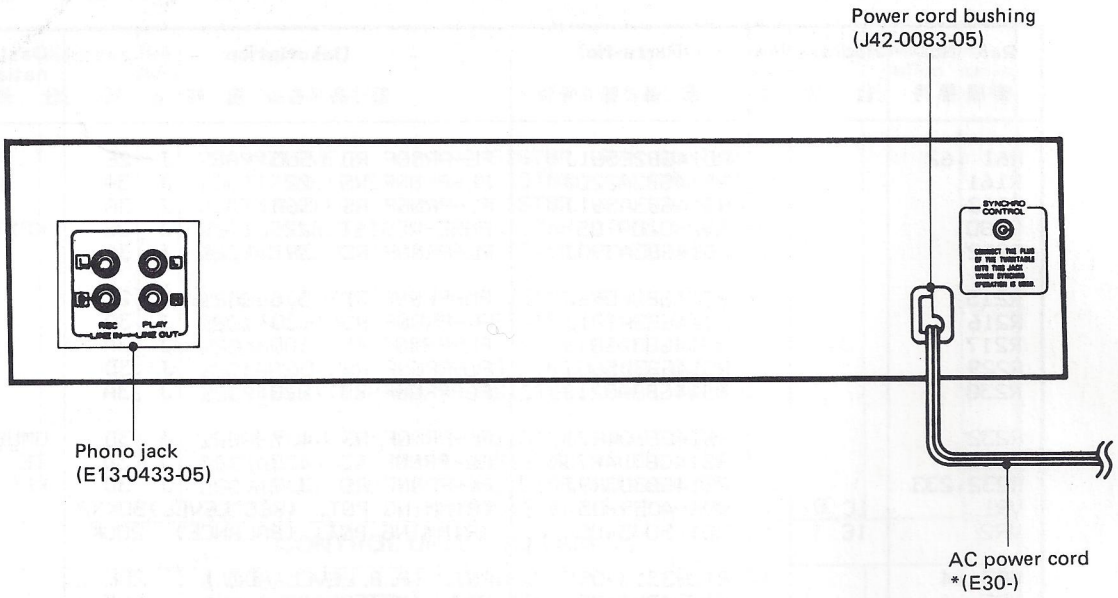
EXTERNAL VIEW



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